MEMORANDUM

TO: Portsmouth Zoning Board of Adjustment ("ZBA")

FROM: R. Timothy Phoenix, Esquire

Kevin M. Baum, Esquire

DATE: May 1, 2019

Re: Tuck Realty Corp. – Applicant

Project Location: 3110 Lafayette Road and 65 Ocean Road

Tax Map 292, Lots 151-1, 151-2 and 153

Single Residence B ("SRB")

Dear Chairman Rheaume and Zoning Board Members:

On behalf of the applicant, Tuck Realty Corp. ("Applicant" or "Tuck"), we are pleased to submit this memorandum and materials in support of Zoning Relief for construction of 23 residential Townhouse units on the subject parcels (the "Project").

I. Exhibits

- 1. 5/1/19-<u>Variance Plan Set</u> by Jones & Beach Engineers, Inc.:
 - Sheet C-1 Existing Conditions Plan;
 - Sheet C-2 –Site Plan (1"=30" scale).
- 2. 4/30/19-Architectural Concept and Elevation Plans¹ by Michael J. Keane Architects, PLLC:
 - Sheet A-1 Conceptual Floor Plans-A; and
 - Sheet A-2 Concept Floor Plans-B
 - Sheet A-3 Concept Elevations.
- 3. 5/1/19- Landscape Plan Set by Ironwood Landscape Architecture.
 - Sheet C1-Landscape Plan.
 - Sheet C2-Lanscape Details.
- 4. <u>City GIS Map</u> Showing surrounding zoning districts.
- 5. <u>5/1/19 Traffic Analysis Memorandum</u> by Stephen G. Pernaw & Company, Inc.
- 6. <u>Site Photographs</u> showing existing conditions.
- 7. Tax Map 292.

¹ Architectural concept and elevations plans are concepts only and are provided for the ZBA's reference. The final floor and elevation plans are subject to revision based upon the Planning Board's review and input from prospective tenants.

II. Property/Project

The subject property (the "Property") consists of three lots totaling 2.22 acres (96,706 s.f.) at the corner of Lafayette Road (US Route 1) and Ocean Road. Two lots are located at 3110 Lafayette Road (Tax Map 292, Lots 151-1 and 151-2), and the third lot is located at 65 Ocean Road (Tax Map 292, Lot 153). **Exhibit 1**. The Property is currently developed with residences on Lot 151-1 and Lot 153, each to be removed. Lot 151-2 is presently undeveloped.

Tuck previously proposed a four-story mixed use building on the site, with first floor office or medical office use and the upper 3 floors containing 30 apartment units. The existing home on Lot 153 was to remain. The thrust of that submission was a request to be considered in a manner akin to the nearby Gateway 1 District, which encompasses a large number of properties fronting on Lafayette Road. At the April 16, 2019 Zoning Board hearing, members expressed some agreement for the requested Gateway treatment; however, expressed concerns about the density and height variances that would be needed if the project was in the Gateway District, as well as the effect of the large building transition from the single family houses to the south and west. Board members inquired as to whether other Gateway uses and structures had been considered which might provide a better transition. As a result of the stated comments and concerns, Tuck withdrew the four-story mixed use application, has since re-examined the zoning ordinance and met with planning department staff. Tuck now proposes a project which we believe provides for a better transition from the SRB to the Gateway zone

Tuck proposes to remove both existing houses and merge the three lots in order to construct 23 townhouses in 5 buildings (7 unit building facing Lafayette Rd., 6 unit building behind the 7 unit building, two 4 unit buildings to the west and a 2 unit building facing Ocean Road). Each unit will provide two garage parking spaces and two driveway spaces for visitors. The townhouses are designed to meet the height requirements of the SRB zone. The plan will provide fencing and/or landscaped screening between the townhouse buildings and the nearest abutters. Unlike the previous proposal, a single entrance from Ocean Road is proposed with an internal turnaround (unless the Planning Board determines otherwise) for emergency vehicles **Exhibit 1.** Traffic generated by the Project is anticipated to be minimal as is driveway queuing and is significantly less than the withdrawn mixed-use proposal. **Exhibit 4.**

The Property is located within the SRB District. Single-family residential properties abut it to the southwest (left) and northwest (rear). Much of the surrounding area consists of

residential (manufactured housing park, several apartment complexes) and non-residential zones and properties. The abutting Bursaw Pantry parcel (zoned MRB) and the Portsmouth Fire Department (zoned M) are to the northeast (right). Jitto's Super Steak Restaurant (zoned G1) abuts across Lafayette Road. **Exhibit 3.** Almost the entirety of the eastern side of Lafayette Road² and most of the western side from roughly West Road to the Rye border are in the Gateway District (G1). Overall, the Lafayette Road (US Route 1) corridor is heavily commercially developed with the exception of the approximately 10 homes fronting on Route 1 to the southwest of the subject Property.

Townhouses as proposed are permitted at the proposed density in the Gateway 1 District. In fact, were this project in the Gateway District, up to 36 units would be permitted. PZO §10.5B71.10 (16 units/acre x 2.22 acre = 35.5 units). Tuck believes that the lots fronting Lafayette Road are unlikely to be developed as single-family homes given the significant commercial structures and uses on Lafayette Road, evidenced by the long existing vacant lot and the recent amendment placing most of Lafayette Road in the Gateway 1 District. Accordingly, structures and uses must be found which will respect both the nearby SRB residences and the fact that this area deserves reasonable zoning relief since it is in a transition area from SRB be to the Gateway District. Tuck submits that the 23 townhouses provide needed housing in this area of Portsmouth (with a far lower parking requirement than the previously proposed four-story mixed use building) and a reasonable transition from the mostly single-family SRB District to the southwest and northwest and the significantly mixed use (manufactured home parks, apartment complexes, restaurants, gas stations, carwashes, commercial plazas and other businesses) found in the Gateway 1 zone from West Road to the Rye town line. This proposal seeks approval as a reasonable transition from SRB to the eclectic mixed-use of the Gateway 1 zone. The proposal complies with the stricter setback requirements of the SRB Zone.

Summarizing, the proposed Townhouses are compatible with and a transition between the surrounding uses and zoning districts. Traffic generated by the use is expected to be limited in volume. **Exhibit 4.** Residential use is already permitted and townhouses are of lesser mass parking/traffic impact than a large mixed use office/apartment building.

² A narrow area where Bluefin Boulevard accesses Lafayette Road is zoned Garden Apartment/Mobile Home Park.

III. Relief Required

Section	Required SRB	Proposed	Comments
10.513	One dwelling per lot	23	Transition area
§10.521 (Table of Dim. Standards) Lot Area per Dwelling Unit	15,000 s.f.	4205 s.f. (23 units)	Exceeds G1=2723 s.f./acre
10.440,1.40	Townhouses not permitted	23 Townhouses	2 houses currently exist Transition zone

IV. <u>Variance Requirements</u>

1. The variances will not be contrary to the public interest.

2. The spirit of the ordinance is observed.

The first step in the ZBA's analysis is to determine whether granting a variance is not contrary to the public interest and is consistent with the spirit and intent of the ordinance, considered together pursuant to *Malachy Glen Associates, Inc. v. Town of Chichester*, 155 N.H. 102 (2007) and its progeny. Upon examination, it must be determined whether granting a variance "would unduly and to a marked degree conflict with the ordinance such that it violates the ordinance's basic zoning objectives." *Id.* "Mere conflict with the zoning ordinance is not enough." *Id.*

The purpose of the Portsmouth Zoning Ordinance as set forth in PZO Section 10.121 is "to promote the health, safety and general welfare of Portsmouth and its region in accordance with the City of Portsmouth Master Plan... [by] regulating":

1. The use of land, buildings and structures for business, industrial, residential and other purposes — Although townhouses are not permitted in the SRB district, most of the surrounding area along Lafayette Road is zoned G1 where townhouses are permitted by right. Residential use is permitted and contemplated under the PZO for both SRB and G1. The Property is located primarily on the busy Lafayette Road (U.S. Route 1), offering a reasonable transition from the single-family homes to the southwest and northwest and compatibility with commercial/multi-residential uses along Lafayette Road from West Road to the Rye town line. Since it is unlikely that the vacant Lafayette Road lot will ever be developed as a single-family residence, the transition from single-family to townhouses to mixed commercial and residential uses in the Gateway District makes sense given the purpose and standards of the Gateway District set forth in PZO section 10.5 B 11:

the purpose of Article 5B is to implement and support the goals of the city's Master Plan and housing policy to encourage walkable mixed-use development and continued economic vitality in the city's primary Gateway areas, ensure that new development complements and enhances its surroundings, provide housing stock that is suited for changing demographics, and accommodate the housing needs of the city's current and future workforce.

The standards set forth herein are intended to:

- a. Promote development that is consistent with the goals of the Master Plan to create vibrant, authentic, diverse, connected and resilient neighborhoods;
- b. encourage high quality housing for a variety of household types and income ranges.
- c. Guide the physical character of development by providing a menu of building and site development types that are based on established community design principles
- d. create quality places by allowing for whole site development with meaningful public spaces and neighborhood centers.

The proposal includes fence and landscape screening from the nearby residences, garages and visitor parking screened from Ocean Road, Lafayette Road and the nearby homes, with a path through the site. The use of the land and buildings will be compatible with those of the surrounding area, and meets the purposes of the Gateway 1 District.

2. The intensity of land use, including lot sizes, building coverage, building height and bulk, yards and open space – the proposal: significantly improves upon the previous four-

story mixed-use building, providing over 50% greater lot area per dwelling unit; significantly reduces the height from approximately 50 feet to a compliant 35 feet; screens parking from the neighbors and the roads; significantly reduces the parking need, combining to accomplish the goal of a tasteful and reasonable transition from SRB to Gateway. Thus, any impacts to nearby residential lots due to the requested townhouse use and density relief is muted.

- 3. The design of facilities for vehicular access, circulation, parking and loading Traffic impact is expected to be limited as a result of the proposed use. **Exhibit 4.** Proposed access is limited to Ocean Road. A traffic light exists at the Ocean/Lafayette intersection and both roadways are relatively wide in the area of the Property. The Project will undergo detailed review during the Technical Advisory Committee ("TAC") and Planning Board review process.
- 4. The impacts on properties of outdoor lighting, noise, vibration, stormwater runoff and flooding None of these are negatively affected by the requested relief. Residential use is permitted. The townhouses will essentially be treated in these respects the same as single-family homes. The proposal meets height, building coverage and open space requirements, thus should have no negative impacts to stormwater runoff or flooding. Lighting, stormwater and flood impacts will be further reviewed and addressed during TAC and Planning Board review.
- 5. The preservation and enhancement of the visual environment The proposal will replace an older residential structure (**Exhibit 5**), a vacant lot upon which a single-family home is unlikely and a modest single family home with a transitional 23 unit townhouse project (**Exhibit 2**). Site design and screening will preserve the visual environment.
- 6. <u>The preservation of historic districts, and buildings and structures of historic or architectural interest</u> Not applicable.
- 7. The protection of natural resources, including groundwater, surface water, wetlands, wildlife habitat and air quality The proposal meets all building coverage and open space requirements. Fencing and or landscaping will screen nearby residences. The Project will undergo TAC and Planning Board Site Plan Review, ensuring that it complies with all necessary drainage, stormwater and other environmental/natural resource requirements.

Based upon the foregoing, the requested variances do not "in a marked degree conflict with the ordinance such that they violate the ordinance's basic zoning objectives." *Malachy Glen, supra,* which also held:

One way to ascertain whether granting the variance would violate basic zoning objectives is to examine whether it would <u>alter the essential character of the locality</u>.... Another approach to [determine] whether granting the variance violates basic zoning objectives is to examine whether granting the variance would <u>threaten the public health, safety or welfare</u>. (emphasis added)

The Property and proposed structures primarily front on the heavily travelled Lafayette Road. In a transition area near many other residential and non-residential uses and multiple zoning districts, the proposal is compatible with the surrounding area and existing/expected development of the remainder of the Route 1 corridor. Accordingly, granting the variances to allow Gateway-1 permitted townhouses as a transition from SRB consistent with the adjoining Gateway District, will neither "alter the essential character of the locality," nor "threaten the public health, safety or welfare."

3. Granting the variance will not diminish surrounding property values.

The Project will replace the decades vacant residential lot, an older residence and a modest Ocean Road home with 23 modern, newly constructed townhouses as a transition from SRB to Gateway and consistent with the Gateway purposes. Traffic is expected to have minimal impact. Given the existence of the SRB homes on or close to Lafayette Road, the possibility of non-single-family homes in this Gateway area is already reflected in property values. Given the location, layout, access and parking for the townhouses and the non-single-family-residential character of most of the Lafayette Road corridor, granting the variance will not diminish surrounding property values.

4. Denial of the variances results in an unnecessary hardship.

a. <u>Special conditions distinguish the property/project from others in the area.</u>

The Property is irregularly shaped with frontage on both Lafayette Road and Ocean Road with many characteristics of a corner lot. It is surrounded by a mix of uses and zoning districts with residences to the rear and left, commercial and municipal uses to the right and front. The transitional nature of the area and proximity of the parcel to heavily travelled Route 1 non-residential uses, leave it poorly suited for single family residential use. **Exhibit 1**. These factors create special conditions that distinguish the property it from others in the area.

b. <u>No fair and substantial relationship exists between the general public purposes of the ordinance and its specific application in this instance.</u>

As noted above, the requested variances are consistent with the general public purposes and spirit of the ordinance. Additionally, the specific restrictions for which relief is requested, for townhouses in the SRB District and unit density, should not be reasonably applied to this particular parcel given its transitional location. For these reasons, there is no fair and substantial relationship between the general public purposes of the PZO and its specific application in this instance.

c. The proposed use is reasonable.

The proposed townhouses are consistent with the Property's location between the SRB and adjoining Gateway Zoning Districts. As a transitional buffer between single-family homes and the commercial/mixed uses/structures along the Lafayette Road corridor, the proposed use is clearly reasonable.

5. Substantial justice will be done by granting the variance.

If "there is no benefit to the public that would outweigh the hardship to the applicant" this factor is satisfied. *Harborside Associates, L.P. v. Parade Residence Hotel, L.L.C.*, 162 N.H. 508 (2011). That is, "any loss to the [applicant] that is not outweighed by a gain to the general public is an injustice." *Malachy Glen, supra* at 109.

Granting the requested variance for 23 townhouses allows Tuck and the property owner a reasonable return via a transitional buffer between the residential neighborhood and the Gateway District. It respects the nearby residences while meeting the spirit and intent of the Gateway purposes which it abuts, providing needed additional housing. Townhouses are permitted in the Gateway District and can be expected for future development of the area. Given these benefits, the fact that the vacant Lafayette Road lot is unlikely to be developed as single-family residences, and limited impact of the proposal, any loss to the general public is small if not non-existent. Conversely, denial of the variance deprives the owner of a reasonable return and Tuck the reasonable use and development of the Property. Thus, there is clearly no benefit to the

public that outweighs the harm to the owner and applicant if the requested variances are not granted.

V. Conclusion

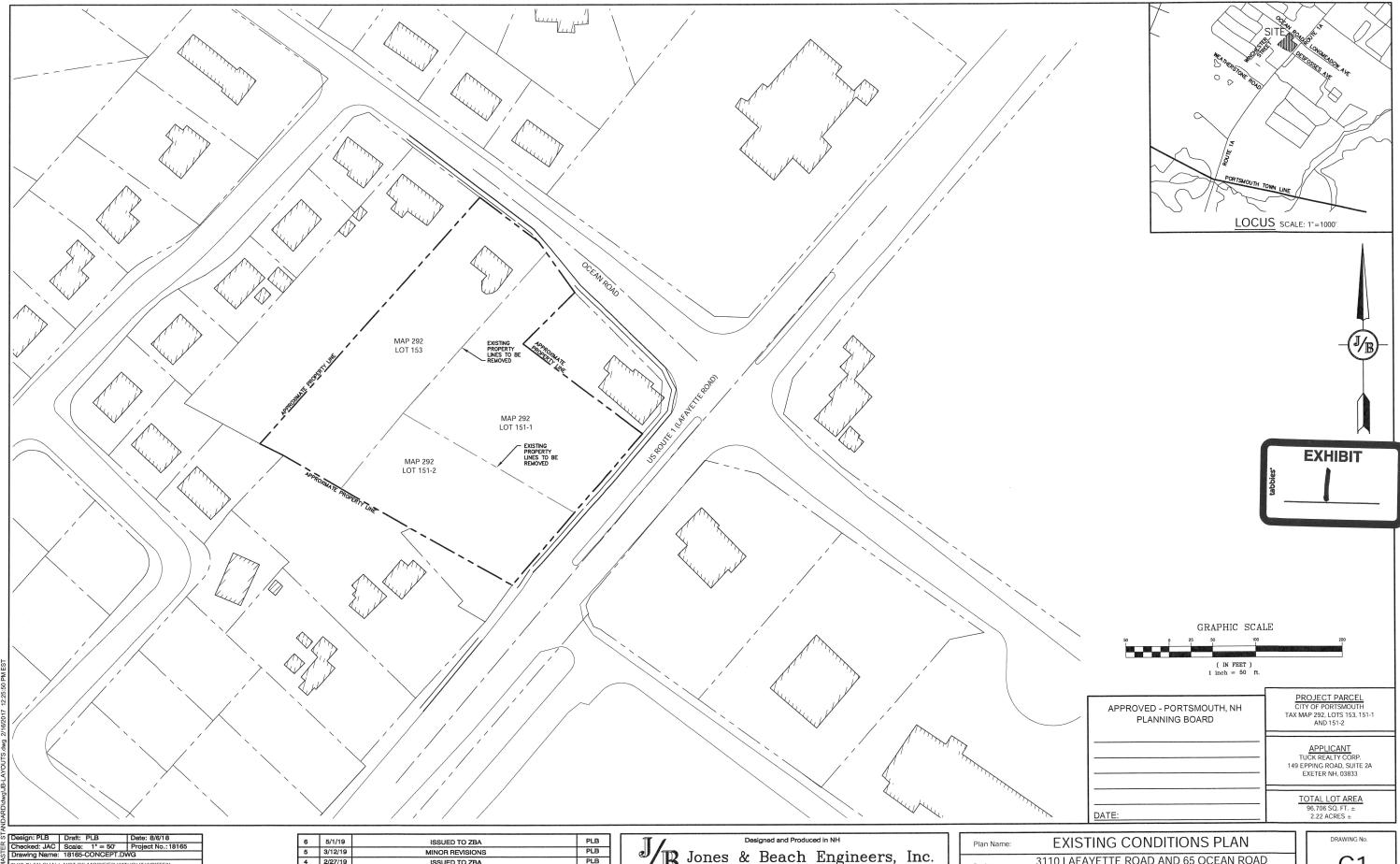
For all of the reasons stated, Tuck respectfully requests that the Portsmouth Zoning Board of Adjustment grant the submitted variance requests.

Respectfully submitted,

Tuck Realty Corp.

By: R. Timothy Phoenix

Kevin M. Baum



THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

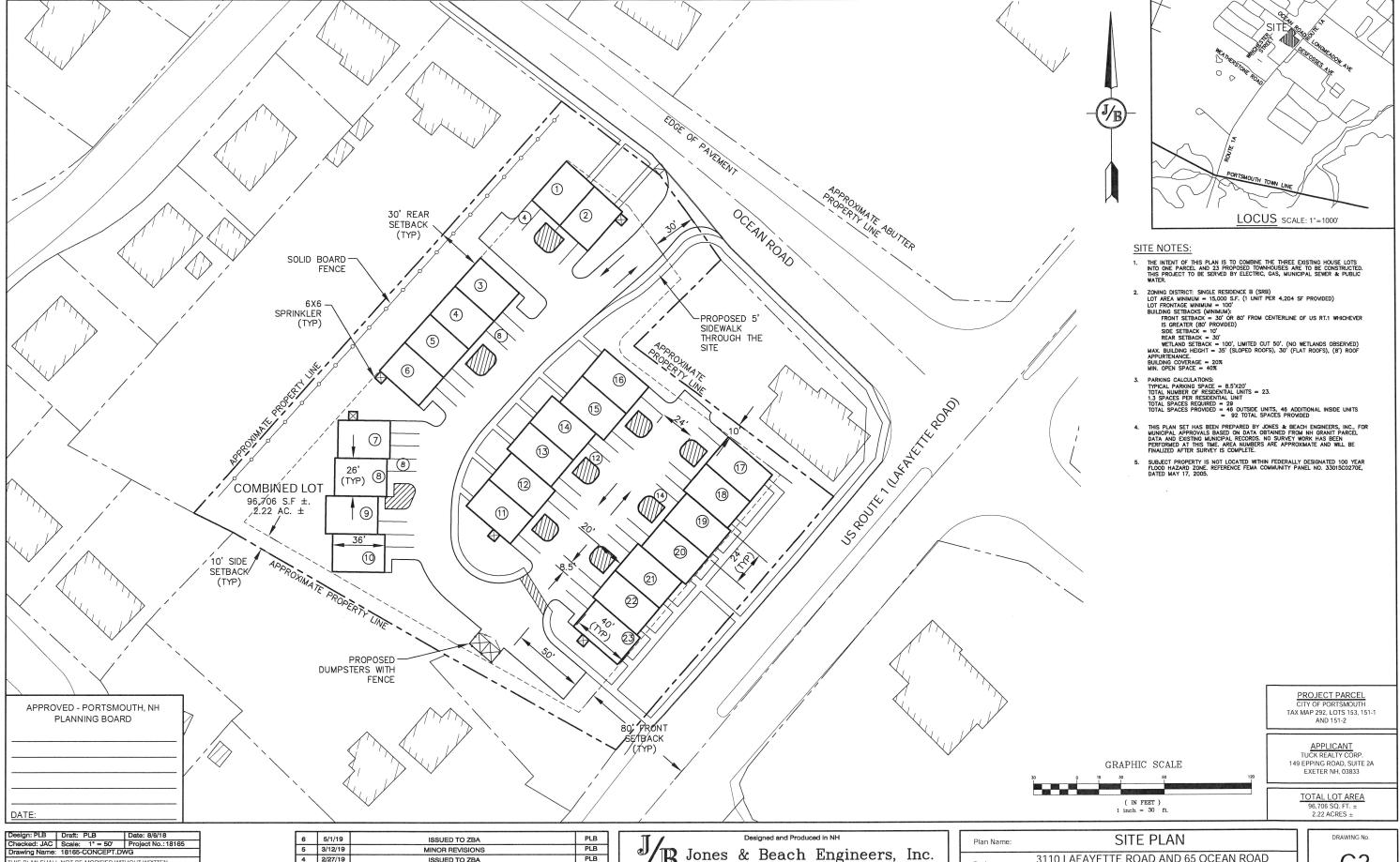
6	5/1/19	ISSUED TO ZBA	PLB
5	3/12/19	MINOR REVISIONS	PLB
4	2/27/19	ISSUED TO ZBA	PLB
3	2/13/19	REVISED PER BUILDING CHANGE	PLB
2	1/3/19	MINOR TEXT EDITS	EJM
REV.	DATE	REVISION	BY

Jones & Beach Engineers, Inc.

35 Portsmouth Ave.	Cinil	Engineering	Samines	603-772-4746
PO Box 219	CLULL	Bity theer they	Delones	FAX: 603-772-0227
Stratham, NH 03885			E-MAIL: JBE@	IONESANDBEACH.COM

Plan Name:	EXISTING CONDITIONS PLAN
Project:	3110 LAFAYETTE ROAD AND 65 OCEAN ROAD PORTSMOUTH NH 03801

Owner of Record: CARTER CHAD
65 OCEAN RD, PORTSMOUTH, NH 03801 WEEKS REALTY TRUST, WEEKS KALEY E TRUSTEE 1 PO BOX 100, HAMPTON FALLS, NH 03844 SHEET 1 OF 2 JBE PROJECT NO. **18165**



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	Engineering		603-772-4746 FAX: 603-772-0227
Stratham, NH 03885		E-MAIL: JBE@J	ONESANDBEACH.COM

	Plan Name:	SILE	PLAN
Company of the Compan	Project:	3110 LAFAYETTE ROA PORTSMOU	D AND 65 OCEAN ROAD TH NH 03801
NOTICE STATEMENT	Owner of Record	CARTER CHAD 65 OCEAN RD, PORTSMOUTH, NH 03801	WEEKS REALTY TRUST, WEEKS KALEY E TRUSTEE PO BOX 100, HAMPTON FALLS, NH 03844

SHEET 1 OF 2 JBE PROJECT NO. **18165**



ARCHITECTURE PLANNING DESIGN 101 Kent Place Newmarket, NH 03857

603-292-1400 mjkarchitects.com

REVISIONS

APPROVALS

ZBA APPLICATION 4/30/2019

PROJECT

3110 LAFAYETTE ROAD AND 65 OCEAN ROAD PORTSMOUTH, NH

FOR TUCK REALTY CORP

1149 EPPING ROAD, SUITE 2A EXETER NH 03833

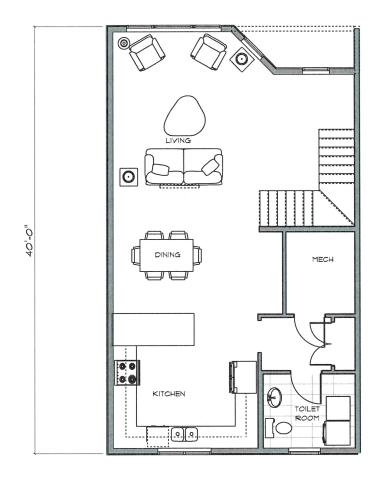
CONCEPT PLANS A

DATE: 4/30/2019

24'-0" 2 CAR GARAGE

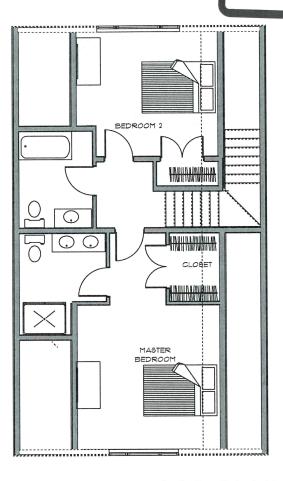
> FIRST FLOOR PLAN 925 +/- S.F. GROSS 390 +/- FINISHED

SCALE: 1/4" = 1'-0"



SECOND FLOOR PLAN 925 +/- S.F.

SCALE: 1/4" = 1'-0"

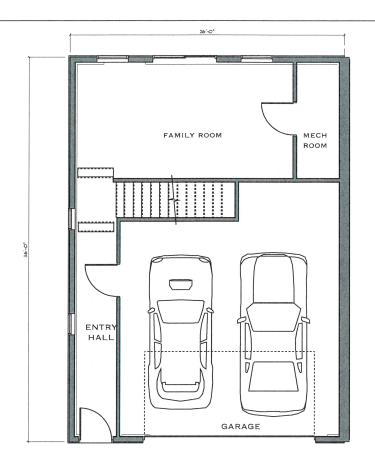


THIRD FLOOR PLAN 966 +/- S.F. GROSS 680 +/- S.F. FINISHED SCALE: 1/4" = 1'-0"

DRAWN BY: MJK CHECKED BY: mjk

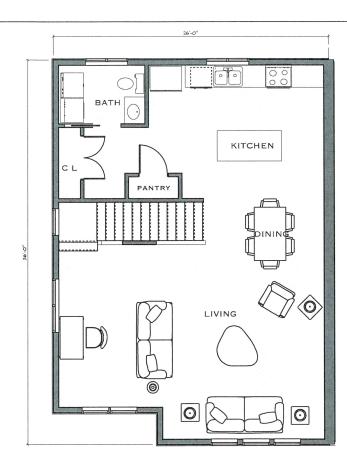
DRAWING NO.

A-1



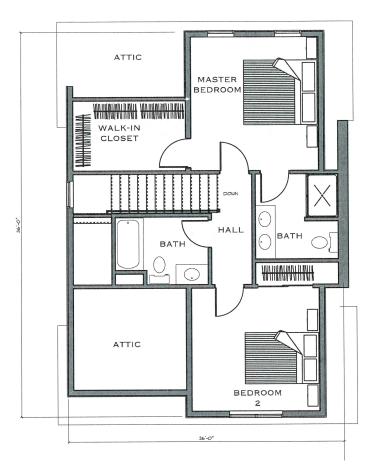


*SCALE: 1/4" = 1'-0"



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"



THIRD FLOOR PLAN

*SCALE: 1/4" = 1'-0"



DATE: 4/30/2019

SCALE:

DRAWING NO.

A-2



7 UNIT GROUP SHOWN 6 UNIT GROUP SIMILAR



2 UNIT GROUP

BUILDING GROUP TYPE A UNITS SCALE: 1/8" = 1'-0"



 $\underset{SCALE:\; 1/8"=\Gamma\text{-}0"}{\underline{BUILDING}\; GROUP\; TYPE\; B\; UNITS}$



TYPICAL REAR AND SIDE ELEVATIONS TYPE B UNITS SCALE: $1/8^{\circ} = 1^{\circ}.0^{\circ}$



Michael J. Keane Architects, PLLC ARCHITECTURE

PLANNING DESIGN 101 Kent Place Newmarket, NH 03857

603-292-1400 mjkarchitects.com

CONSULTANTS

REVISIONS

APPROVALS

ZBA APPLICATION 4/30/2019

PROJECT

3110 LAFAYETTE ROAD AND 65 OCEAN ROAD PORTSMOUTH, NH

FOR TUCK REALTY CORP

1149 EPPING ROAD, SUITE 2A EXETER NH 03833

TITLE

CONCEPT ELEVATIONS

DATE: 4/30/2019

DRAWING NO.

A-3





Landscape Architecture • Planning Newmarket, New Hampshire | Portland, Maine 603.772.0590 www.FeWood.com

Portsmouth, New Hampshire

LANDSCAPE

REV. NO. REV. DATE REVISION DESCRIPTION

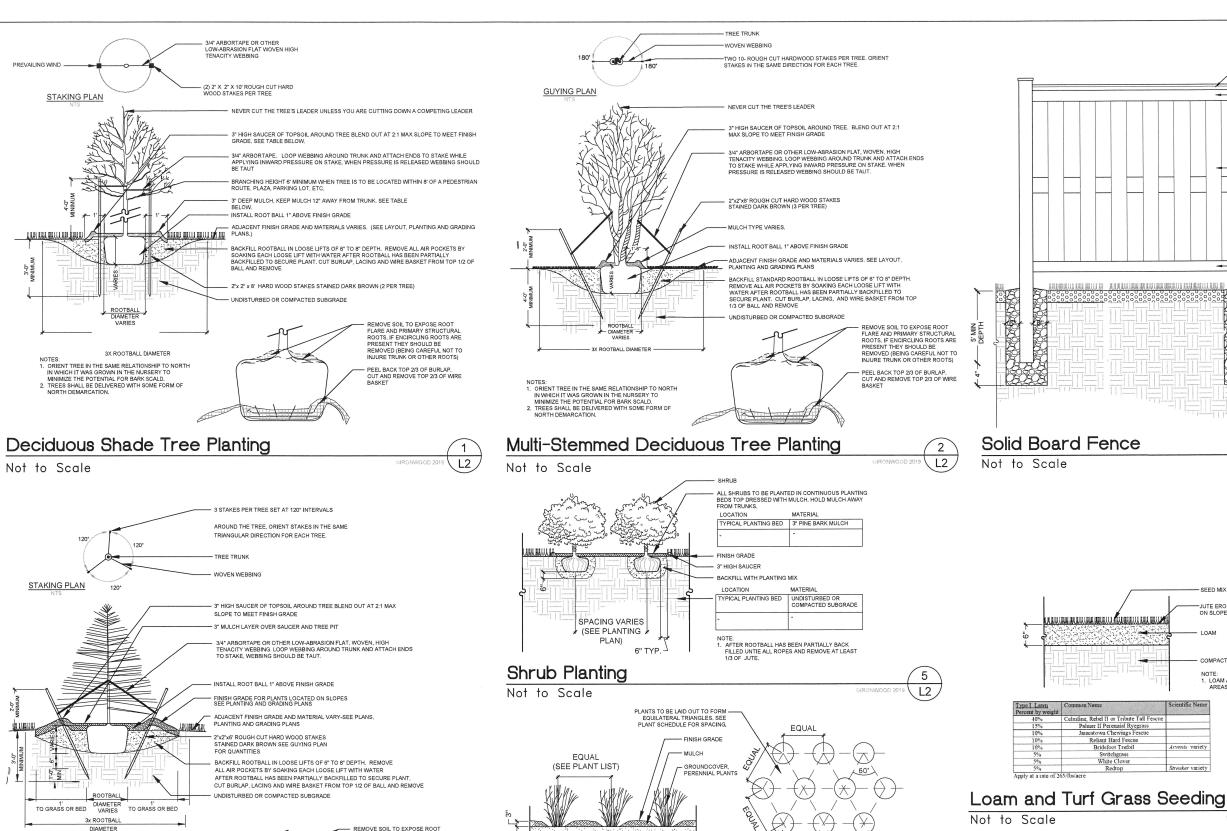
19022.0

J. HYLAND/J. MARTEL J. HYLAND/J. MARTEL

> J.HYLAND MAY I, 2019



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PEEL BACK TOP 2/3 OF BURLAP.
 CUT AND REMOVE TOP 2/3 OF WIRE BASKET

NOTES:

1. ORIENT TREE IN THE SAME RELATIONSHIP TO NORTH IN WHICH IT WAS GROWN IN THE NURSERY TO MINIMIZE THE POTENTIAL FOR BARK SCALL.

2. TREES SHALL BE DELIVERED WITH SOME FORM OF

Evergreen Tree Planting

Not to Scale

SHRUB, PERENNIAL,

Perennial / Ornamental Grass Planting

Not to Scale

TRIANGULAR PLANT SPACING PLAN

NOTE: 1. CONTAINER PLANTS: PRIOR TO PLANTING, REMOVE PLANT FROM CONTAINER AND

- 5.5° SQ. POST 5/4" X 6" VERTICA 2"x4" RAIL 5,5" SQ, X 12'-LONG FENCE POST

3110 Lafayette Road 65 Ocean Road Portsmouth, New Hampshire Owners of Record: Carter, Chad 65 Ocean Rd. Portsmouth, Weeks Realty Trust, Weeks, Kaley E. P.O. Box 100 Hampton Falls, NH 03

L2

L2

SEED MIX TYPE I

COMPACTED SUBGRADE

Landscape Architecture • Planning

ewmarket, New Hampshire | Portland, Maine

603.772.0590 www.FeWood.com

LANDSCAPE DETAILS

IRONWOOD PROJECT NO. 19022.0 J. HYLAND/J. MARTEL DRAWN BY J. HYLAND/J. MARTEL J.HYLAND MAY I, 2019

ISSUED FOR ZBA REVIEW

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Exhibit \$\frac{4}{3}\$ - City GIS Map Property Information Property ID 0292-0151-0001 Location 3110 LAFAYETTE RD WEEKS REALTY TRUST **EXHIBIT** ROW ROW MRB ROW MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT City of Portsmouth, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map. Geometry updated 11/30/2018 Data updated 11/19/2018 Google AppGeo 1" = 300 ft

Map Theme Legends

Zoning

Residential Districts
R Rural
SRA Single Residence A
SRB Single Residence B
GRA General Residence A
GRB General Residence B
GRC General Residence C
GA/MH Garden Apartment/Mobile Home Par
Monthseparat
Mixed Residential Districts
MRO Mixed Residential Office
MRB Mixed Residential Business G1 Gateway Corridor
G2 Gateway Center
Business Districts GB General Business
B Business WB Waterfront Business
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Industrial Districts
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WI Waterfront Industrial
Airport Districts
AIR Airport
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ABC Airport Business Commercial
Conservation Districts
M Municipal
NRP Natural Resource Protection
Nacotic stand
Character Districts
CD5 Character District 5
CD4 Character District 4
CD4W Character District 4-8
CD4-L1 Character District 4-L1
CD4-L2 Character District 4-L2
Civic District
Civic District
Municipal District
Municipal District
Overlay Districts
OLOD Osprey Landing Overlay District
Downtown Overlay District
Historic District

City of Portsmouth



P.O. Box 1721 • Concord, NH 03302 tel: (603) 731-8500 • fax: (866) 929-6094 • sgp@ pernaw.com

Transportation: Engineering • Planning • Design

MEMORANDUM

Ref:

1908A

To:

Michael Garrepy

Tuck Realty Corporation

From:

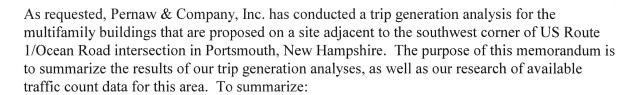
Stephen G. Pernaw, P.E., PTOE

Subject: Proposed Multifamily Development

Portsmouth, New Hampshire

Date:

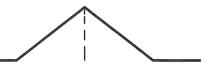
May 1, 2019



<u>Proposed Development</u> – According to the plan entitled "Site Plan," prepared by Jones & Beach Engineers, Inc. (see Attachment 1) this project involves the construction of 23 multi-family dwelling units. Recognizing that this is a preliminary plan that is subject to change, the analysis contained herein is based on a range of 22 to 24 dwelling units. Access to the site will be provided via one full-access driveway on Ocean Road located approximately 200-feet west of US1. One existing residence on the subject site will be razed.

Existing Traffic Volumes – Research at the NHDOT revealed that there is a short-term Automatic Traffic Recorder (ATR) count on US1 (north of Ocean Road). This count was conducted in July of 2016. According to the NHDOT reports, the section of US1 north of Ocean Road carried an AADT volume of approximately 19,865 vehicles per day (vpd) in 2018, up slightly from 19,475 vpd in 2017 (see Attachment 2).

This data shows that traffic volumes in the area typically reach peak levels during the morning and late afternoon on weekdays; thus reflecting typical commuting patterns. Figure 1 shows the location of the site and the ATR count on US1 as well as an additional count on Ocean Road (over the B&M Railroad). The diagrams on Page 3 graphically show the daily and hourly variations in traffic demand at this location on US1. The detail sheets pertaining to these counts are attached (see Attachment 3 & 4).



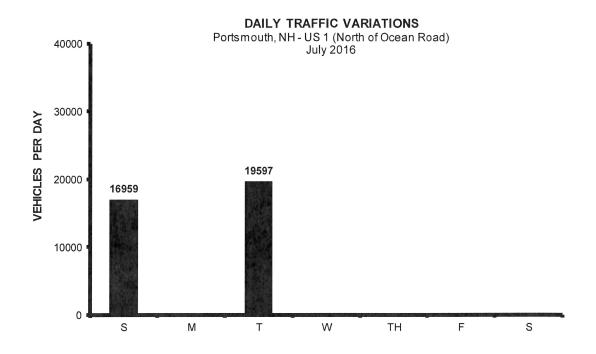
Pernaw & Company, Inc.

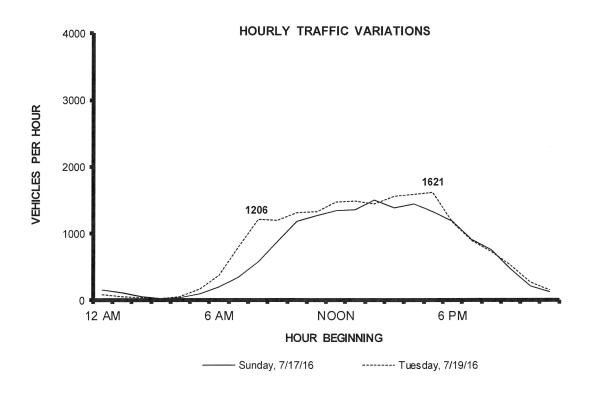
Site Location / 2018 AADT Traffic Volumes



NORTH









<u>Trip Generation</u> - To estimate the quantity of vehicle-trips that will be produced by the proposed multifamily dwellings, Pernaw & Company, Inc. considered the standard trip generation rates and equations published by the Institute of Transportation Engineers (ITE). Land Use Code LUC 220 (Multifamily Housing/Low-Rise) is the most applicable category for the proposed development. The number of dwelling units was utilized as the independent variable in this analysis.

Table 1 shows that the proposed residential development will generate approximately 8 to 12 vehicle-trips during the weekday AM peak hour, and 10 to 17 vehicle-trips during the PM peak hour. The computations pertaining to these analyses are attached (see Attachments 5 & 6).

Table 1	Trip Generation Summary					
		Low er Estimate ¹ (22 Dw elling Units)	Higher Estimate ¹ (24 Dw elling Units)			
Weekday Total						
	Entering	59 veh	71 veh			
	Exiting	<u>59</u> <u>veh</u>	<u>71</u> <u>veh</u>			
	Total	118 trips	142 trips			
Weekday AM P	eak Hour					
	Entering	2 veh	3 veh			
	Exiting	6 veh	9 veh			
	Total	8 trips	12 trips			
Weekday PM Pe	eak Hour					
	Entering	6 veh	11 veh			
	Exiting	4 veh	6 veh			
	Total	10 trips	17 trips			

¹ITE Land Use Code 220 - Multifamily Housing (Low-Rise)

1908A

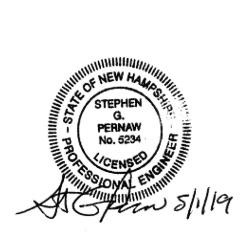
¹ Institute of Transportation Engineers, *Trip Generation*, 10th Edition (Washington, D.C., 2017)



Findings & Conclusions

- 1. The traffic count conducted by the NHDOT in July 2016 on US1 (north of Ocean Road) revealed that this section of roadway carried over 19,500 vehicles per day in July 2016, with the highest hourly traffic volume occurring from 5:00 to 6:00 PM on a weekday (1,621 vph).
- 2. According to the trip generation rates published by the ITE, the proposed residential development will generate between 8 and 12 (AM) and 10 and 17 (PM) vehicle-trips during the peak hour periods when complete. On a daily basis this site is expected to generate between 118 and 141 vehicle-trips.
- 3. Driveway queuing is expected to be minimal with 9 or fewer vehicles exiting from the site over the course of the AM peak hour, and 6 or fewer vehicles during the PM peak hour.

Attachments





ATTACHMENTS





Transportation Data Management System

List	View	Δ .	di DiRs										
Record	d [44		1))	of 1	Goto Re	cord	9	0	al granden de mesme e escenador		
Locat	ion ID	823791	50						T	MPO ID			
	Туре	SPOT								HPMS ID			
Oı	n NHS	Yes								On HPMS	Yes		
L	RS ID	U00000	01						L	RS Loc Pt.			
SF	Group	04)	<u> </u>	Route Type			
AF (Group	04								Route	US 1		
GF	Group	E								Active	Yes		
Class Di	st Grp	Default							>	Category	3		
Seas Cls	s Grp	Default							•				
WIM	Group	Default						l					
QC	Group	Default											
				l Arterial						Milepost			
		Lafayet	-										
Loc Or	Alias	US 1 (L	AFAYE	TTE RD) NC	ORTH C	F OCEAN	RD (SB-NE	3) (813	379211-8137	9212)		
More Deta	ail 🕨												
STATIO		.ν											
Direction			ND	CD #									
Direction	15. 2	-VVAY	NB	SB	9								
AADT	0												
	Year	AAI	TC	DHV-30	0	K %	D %	, •	PA	1	вс		Src
	Year 2018	AA I		DHV-30	0	K %	D %	18,31			зс 0 (8%)		Src Grown om 2017
			65 ³	DHV-30	0	K %	D %	18,31	5 (92	2%) 1,55		fro	Grown
	2018	19,86	65 ³ 75 ³	DHV-30				18,31 18,07	5 (92 75 (93	2%) 1,55 3%) 1,40	0 (8%)	fro fro	Grown om 2017 Grown
-	2018 2017	19,86 19,4	65 ³ 75 ³ 93			8	53	18,31 18,07	5 (92 75 (93	2%) 1,55 3%) 1,40	0 (8%) 0 (7%)	fro fro	Grown om 2017 Grown om 2016 Grown
	2018 2017 2016 2015	19,86 19,4 19,0 17,89	65 ³ 75 ³ 93 95 ³			8	53	18,31 18,07	5 (92 75 (93	2%) 1,55 3%) 1,40	0 (8%) 0 (7%)	fro fro fro	Grown om 2017 Grown om 2016 Grown om 2014 Grown
	2018 2017 2016 2015 2014	19,86 19,4 19,0 17,89	65 ³ 75 ³ 993 95 ³ 74 ³	1,621		8	53	18,31 18,07	5 (92 75 (93	2%) 1,55 3%) 1,40	0 (8%) 0 (7%)	fro fro fro	Grown om 2017 Grown om 2016 Grown om 2014
_<<	2018 2017 2016 2015	19,86 19,4 19,0 17,89	65 ³ 75 ³ 93 95 ³			8	53	18,31 18,07	5 (92 75 (93	2%) 1,55 3%) 1,40	0 (8%) 0 (7%)	fro fro fro	Grown om 2017 Grown om 2016 Grown om 2014 Grown
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I<< Travel [2018 2017 2016 2015 2014 <	19,86 19,4 19,0 17,89 17,3	65 ³ 75 ³ 93 95 ³ 74 ³ >>	1,621	f 15	8	53	18,31 18,07 17,41	75 (92 75 (93 13 (91	2%) 1,55 3%) 1,40	0 (8%)	fro fro fro	Grown om 2017 Grown om 2016 Grown om 2014 Grown
I<< Travel [2018 2017 2016 2015 2014 <	19,86 19,4 19,0 17,8 17,3 d Model Model AA	65 ³ 75 ³ 93 95 ³ 74 ³ >>	1,621 1-5 o	f 15	8	53	18,31 18,07 17,41 MD PPV	5 (92 75 (93 3 (91	2%) 1,55 3%) 1,40 1%) 1,68	0 (8%)	fro fro fro fro	Grown om 2017 Grown om 2016 Grown om 2014 Grown om 2013
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VOLUM	2018 2017 2016 2015 2014 <	19,86 19,4 19,0 17,8 17,3	65 ³ 75 ³ 93 95 ³ 74 ³ >> del DT 2016 2013 2013 2013 2013	1,621 1-5 o	In 66 66 66 66 66 66 66 66 66 66 66 66 66	8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	53 53 53 53 53 53 53 53 53 6,959 20,159 19,003 18,690 18,712 18,246	MD PPV VOLUM Year 2018 2017 2016 2015 2014 2013	5 (92 75 (93 3 (91	2%) 1,55 3%) 1,40 9%) 1,68 PHV PM PF	v NT v NT v NT v 2% 7% 3% 2% -7%	frc (frc (frc (frc	Grown om 2017 Grown om 2016 Grown om 2014 Grown om 2013
VOLUM	2018 2017 2016 2015 2014 <	19,86 19,4 19,0 17,8 17,3 >	65 ³ 75 ³ 93 95 ³ 74 ³ >> del DT 2016 2013 2013 2013 2013	1,621 1-5 o	f 15	8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	53 53 53 53 53 53 53 53 19,597 16,959 20,159 19,003 18,690 18,712	MD PPV VOLUM Year 2018 2017 2016 2015 2014	5 (92 75 (93 3 (91	2%) 1,55 3%) 1,40 9%) 1,68 PHV PM PF	V NT v NT	frc (frc (frc (frc	Grown om 2017 Grown om 2016 Grown om 2014 Grown om 2013





Transportation Data Management System



Excel Version

Weekly Volume Report							
Location ID:	82379150	Type:	SPOT				
Located On:	Lafayette Rd	:					
Direction:	2-WAY						
Community:	PORTSMOUTH	Period:	Mon 7/11/2016 - Sun 7/17/2016				
AADT:	19093						

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Graph	
12:00 AM							157	157		0.9%
1:00 AM							106	106		0.6%
2:00 AM							53	53		0.3%
3:00 AM							23	23	*	0.1%
4:00 AM							38	38		0.2%
5:00 AM							99	99		0.6%
6:00 AM							200	200		1.2%
7:00 AM		- San Carlotte Control of the Contro			William House Market Committee		346	346		2.0%
8:00 AM							580	580		3.4%
9:00 AM					ali di Mikakan ngkanaga an an		876	876		5.2%
10:00 AM					***************************************		1188	1,188		7.0%
11:00 AM							1262	1,262		7.4%
12:00 PM							1345	1,345		7.9%
1:00 PM	,						1354	1,354		8.0%
2:00 PM							1506	1,506	and the Courty of Marine Land	8.9%
3:00 PM							1389	1,389		8.2%
4:00 PM							1440	1,440		8.5%
5:00 PM							1333	1,333	All the second section flowers and	7.9%
6:00 PM							1185	1,185	Company of the state of the sta	7.0%
7:00 PM		-					908	908		5.4%
8:00 PM					-		766	766		4.5%
9:00 PM							469	469		2.8%
10:00 PM	,,						211	211		1.2%
11:00 PM							125	125		0.7%
Total	0	0	0	0	0	0	16,959			
24hr Total							16959	16,959		
AM Pk Hr							11:00			
AM Peak							1262	1,262		
PM Pk Hr							2:00			
PM Peak							1506			
% Pk Hr							8.88%	8.88%		





Transportation Data Management System



Excel Version

Weekly Volume Re	eport		
Location ID:	82379150	Type:	SPOT
Located On:	Lafayette Rd	:	
Direction:	2-WAY		
Community:	PORTSMOUTH	Period:	Mon 7/18/2016 - Sun 7/24/2016
AADT:	19093		

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Graph
12:00 AM		88						88	0.4%
1:00 AM		54						54	0.3%
2:00 AM		39						39	0.2%
3:00 AM		28						28	0.1%
4:00 AM		57					Parantina de la Contraction de	57	0.3%
5:00 AM	- Lychard Control	169						169	0.9%
6:00 AM		378						378	1.9%
7:00 AM		785						785	4.0%
8:00 AM		1206						1,206	6.2%
9:00 AM		1201						1,201	6.1%
10:00 AM		1313						1,313	6.7%
11:00 AM		1332						1,332	6.8%
12:00 PM		1477						1,477	7.5%
1:00 PM		1479						1,479	7.5%
2:00 PM		1446						1,446	7.4%
3:00 PM		1561						1,561	8.0%
4:00 PM		1587						1,587	8.1%
5:00 PM		1621						1,621	8.3%
6:00 PM		1174						1,174	6.0%
7:00 PM		899						899	4.6%
8:00 PM		738						738	3.8%
9:00 PM		530						530	2.7%
10:00 PM		279						279	1.4%
11:00 PM		156						156	0.8%
Total	0	19,597	0	0	0	0	0		
24hr Total		19597						19,597	
AM Pk Hr		11:00							
AM Peak		1332						1,332	
PM Pk Hr		5:00							
PM Peak		1621						1,621	
% Pk Hr		8.27%						8.27%	

Trip Generation Summary

Open Date: 4/30/2019

4/30/2019

Analysis Date:

Alternative 1	Higher Estimate - 24 Dwellings
Alternative:	Phase:

Phase:	Higher Estimate - 24 Dwellings
Project:	1908A 043019

	Š	Veekday Average Daily Trips	rage Daily	/ Trips		Weekday AM Peak Hour of Adjacent Street Traffic	eekday AM Peak Hour Adjacent Street Traffic	our of ffic		Weekday PM Peak Hour of Adjacent Street Traffic	eekday PM Peak Hour Adjacent Street Traffic	ur of fic	
ITE Land Use	*	Enter	Exit	Total	*	Enter	Exit	Total	*	Enter	Exit	Total	
220 LOW-RISE 1		71	20	141		က	6	12		1	9	17	
24 Dwelling Units													
Unadjusted Volume		71	02	141		က	6	12		1	9	17	
Internal Capture Trips		0	0	0		0	0	0		0	0	0	
Pass-By Trips		0	0	0		0	0	0		0	0	0	
Volume Added to Adjacent Streets		71	20	141		က	6	12		1	9	17	

Total Weekday Average Daily Trips Internal Capture = 0 Percent

Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

* - Custom rate used for selected time period.

Trip Generation Summary

Alternative: Alternative 1

Lower Estimate - 22 Dwellings Phase:

1908A 043019 **Project:**

Open Date: 4/30/2019 4/30/2019 Analysis Date:

COL PERSON LA PE	Š	eekday Average Daily Trips	erage Dail	y Trips Total		Weekday AM Peak Hour of Adjacent Street Traffic	eekday AM Peak Hour Adjacent Street Traffic	lour of affic Total		Weekday PM Peak Hour of Adjacent Street Traffic	eekday PM Peak Hour Adjacent Street Traffic Enter	our of ffic Total
221 MID-RISE 1 22 Dwelling Units	*	59 59	59 59	118	ĸ	2		8	ĸ	9	4	10
Unadjusted Volume		29	59	118		2	9	-80		9	4	10
Internal Capture Trips		0	0	0		0	0	0		0	0	0
Pass-By Trips		0	0	0		0	0	0		0	0	0
Volume Added to Adjacent Streets		29	29	118		2	9	80		9	4	10

Total Weekday Average Daily Trips Internal Capture = 0 Percent

Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

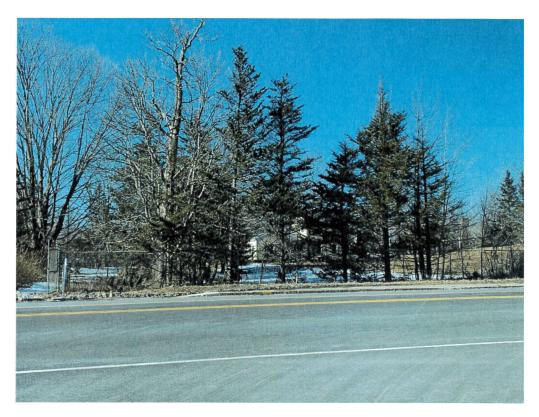
Custom rate used for selected time period.



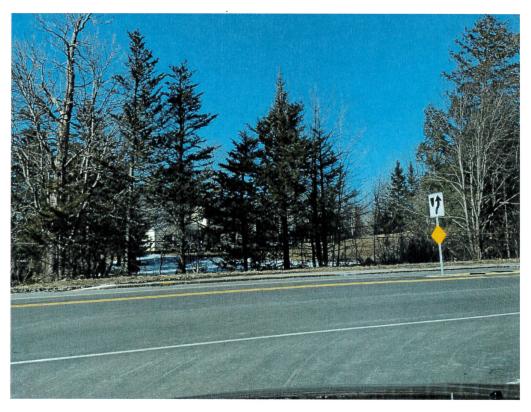
Existing Conditions – View of Property from the North



Existing Conditions – View of Property from the South



Existing Conditions – View of Property from the East



Existing Conditions – View of Property from the East

