

Traffic Impact Statement

Port Royal Club - Site Plan Petition

City of Naples, FL 02/16/2024

Prepared for:

Port Royal Club 2900 Gordon Drive Naples, FL 34102

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Statement of Certification

I certify that this Traffic Impact Statement has been prepared by me or under my immediate supervision and that I have experience and training in the field of Traffic and Transportation Engineering.



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Project Description

The Port Royal Club is located on the east and west side of Gordon Drive at the intersection of Gordon Drive and Kingstown Drive, in Naples, Florida. The subject parcel lies within Section 16, Township 50 South, Range 25 East, in Collier County.

Refer to Fig. 1 – Project Location Map, which follows and Appendix A: Project Master Site Plan.



Figure 1 - Project Location Map

The Port Royal Club operated before Hurricane Ian with a fine dining restaurant and a recreational community center for the benefit of the residents of Port Royal. The current redevelopment of Port Royal Club proposes a total square footage of 76,957 sf, with 6,060 sf of fine dining and 70,897 sf dedicated to the rec community center. This report will also consolidate the Port Royal Club with the neighboring Port Royal Club fitness/tennis center that is currently in operation. The fitness/tennis center has a total of 9 tennis courts and an indoor facility with 13,315 square feet of floor space. A portion of the employees for the Port Royal Club will use available parking from the fitness club. The project has a horizon year of 2026.

The project's site trip generation is based on the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, <u>11th Edition</u>. The project provides a highest and best use scenario with respect to the project's proposed trip generation. The development program is illustrated in **Table 1**.

<u>Table 1</u> Development Program

Development	ITE Land Use	ITE Land Use Code	Total Size
Proposed	Fine Dining Restaurant	931	6,060 square feet
Redevelopment	Recreational Community Center	495	70,897 square feet
Existing	Raquet/Tennis Club	491	9 courts
Development	Health/Fitness Club	492	13,315 square feet

The project buildout and future planning horizon year for this analysis is 2026.

A methodology meeting checklist was submitted to the City of Naples Planning staff on October 25, 2023, via email (reference **Appendix B: Initial Meeting Checklist**).

Connection to the roadway network is an existing full movement driveway onto Gordon Drive.

Trip Generation

The software program OTISS (Online Traffic Impact Study Software, most current version) is used to create the raw unadjusted trip generation for the project. The ITE rates are used for the trip generation calculations. The ITE – OTISS trip generation calculation worksheets are provided in **Appendix C: Trip Generation Calculations ITE 11**th **Edition**.

The **internal capture** accounts for a reduction in external traffic because of the interaction between the multiple land uses in a site. No internal capture is considered for this site.

The **pass-by trips** account for traffic that is already on the external roadway network and stops at the project on the way to a primary trip destination. No pass-by is considered for this site.

Land use code 491 – Raquet/Tennis Club - ITE does not provide data for the AM peak hour. The PM peak hour trip generation will be used to represent the AM peak hour as people are expected to use the courts during the AM peak hour. ITE does not provide a directional distribution for the

PM peak hour for land use code 491. As such, the directional distribution for the AM and PM peak hour is assumed as follows: Entering – 50%; Exiting – 50%.

Land use code 492 – Health/Fitness Club - ITE does not provide data for the Daily and AM peak hour. The PM peak hour trip generation will be used to represent the AM peak hour as people are expected to use the fitness center during the AM peak hour.

The estimated trip generation for the proposed buildout is illustrated in **Table 2A**. The estimated trip generation for the existing conditions of the athletic club are illustrated in **Table 2B**. The estimated net new trips for the proposed buildout conditions are illustrated in **Table 2C**.

<u>Table 2A</u>
Trip Generation (Proposed Conditions) – Average Weekday

Proposed Develop	oment	24 Hour Two-Way Volume (vpd)	AM Pe	ak Hou	r (vph)	PM Pe	ak Hou	r (vph)
Land Use	Size (1)		Enter	Exit	Total	Enter	Exit	Total
Fine Dining Restaurant	6,060 sf	912	0	0	0	31	16	47
Recreation Community Center	66,374 sf	1,913	89	46	135	83	94	177
Raquet/Tennis Club	9 courts	249	17	17	34	17	17	34
Health/Fitness Club	13,315 sf	0	26	20	46	26	20	46
Total		3,074	132	83	215	157	147	304

Note: 1) sf = square feet; 2) vpd = vehicles per day; 3) vph = vehicles per hour.

<u>Table 2B</u>
Trip Generation (Existing Conditions) – Average Weekday

Proposed Develop	oment	24 Hour Two-Way Volume (vpd)	AM Pe	ak Hou	r (vph)	PM Pe	ak Hou	r (vph)
Land Use	Size (1)		Enter	Exit	Total	Enter	Exit	Total
Raquet/Tennis Club	9 courts	249	17	17	34	17	17	34
Health/Fitness Center	13,315 sf	0	26	20	46	26	20	46
Total		249	43	37	80	43	37	80

Note: 1) sf = square feet; 2) vpd = vehicles per day; 3) vph = vehicles per hour.

The roadway link concurrency analysis of the surrounding roadway network is analyzed based on the projected PM peak hour net new trips generated because of the proposed SPP project (as shown in **Table 2C**). Site access analysis will be based on projected AM and PM peak hour trips generated because of the proposed SPP project (as shown in **Table 2A**).

<u>Table 2C</u>
Net New Trips (Proposed Conditions) – Average Weekday

Proposed Development	24 Hour Two-Way Volume (vpd)	AM Pe	ak Hou	r (vph)	PM Pe	ak Hou	r (vph)
Land Use		Enter	Exit	Total	Enter	Exit	Total
Proposed	3,074	132	83	215	157	147	304
Existing	249	43	37	80	43	37	80
Net Increase/(Decrease)	2,825	89	46	135	114	110	224

Note: 1) sf = square feet; 2) vpd = vehicles per day; 3) vph = vehicles per hour.

Trip Distribution and Assignment

Projected traffic generated by the project is assigned to the adjacent roadways using knowledge of the area and as coordinated with City of Naples Transportation Planning staff.

Consistent with the traffic data presented in Table 2C, the project PM peak hour traffic is more intensive than the traffic generated during the AM peak hour.

The assignment of the projected site-generated trips is shown in **Table 3, Project Traffic Distribution by PM Peak Hour**, and is graphically depicted on **Figure 2 – Project Distribution by Percentage and PM Peak Hour**.

<u>Table 3</u>
Project Traffic Distribution by PM Peak Hour

Poodway Link	Poodway Link Location	Distribution Roadway Link Location of Project		PM Peak Hour Project Traffic Volume ⁽²⁾ (vph)			
Roadway Link	Roadway Link Location	of Project Traffic	Enter	Exit	2-way Total		
Gordon Dr	21 st Ave S to Galleon Dr	30%	SB – 34	NB – 33	67		
Gordon Dr	Galleon Dr to Kingstown Dr	40%	SB – 46	NB – 44	90		
Gordon Dr	Gordon Dr South of Kingstown Dr		NB – 23	SB – 22	45		
Galleon Dr ⁽¹⁾	East of Gordon Dr	10%	WB – 11	EB – 11	22		
Kingstown Dr (1)	Gordon Dr to Fort Charles Dr	40%	WB – 46	EB – 44	90		
Kingstown Dr (1)	Kingstown Dr (1) East of Fort Charles Dr		WB – 23	EB – 22	45		
Fort Charles Dr (1)	South of Kingstown Dr	20%	WB – 23	EB – 22	45		

Note(s): 1) Not a city monitored facility.

²⁾ City of Naples facilities analyzed as 2-way traffic.

³⁾ vph = vehicles per hour



Figure 2 – Project Distribution by Percentage and PM Peak Hour



Background Traffic

Average background traffic growth rates are estimated for the segments of the roadway network in the study area using the City of Naples Concurrency System Management Element – Adopted Standards for Roadway Level of Service (LOS).

As such, for City monitored streets, the adopted standard LOS for vehicular travel is LOS "C". The single exception to the City's standard is Fifth Avenue South between US 41 and Gulf Shore Boulevard. This segment is defined as a constrained facility and accordingly is exempted from level of service requirements. For Collier County maintained roads within the City of Naples (Goodlette-Frank Road and Golden Gate Parkway), the City of Naples has adopted the Collier County's Level of Service. For State Roads #45 (US 41) and #90 (US 41) within the City's corporate limits, the City is consistent with the State's policies for LOS.

The LOS Standard for the City streets is measured by comparing the two-way traffic volume at peak hour, peak season with the designated roadway capacity as set forth in the City of Naples Comprehensive Plan.

The City has a low growth rate, restricted geographic boundaries, limited undeveloped land and minimal future infrastructure needs. Even though the City population trend is expected to level off, the traffic volume trends can be estimated to increase as the result of the influence of Collier County growth. The analyzed surrounding roadway network services a developed area with minimal undeveloped. As such, the average background traffic growth rates are estimated for the segments of the roadway network in the study area using a 1% growth rate.

The City of Naples two-way peak hour traffic counts through the 1st quarter of the year 2023 are illustrated in **Appendix D: City of Naples – Two-way Traffic Volumes**.

Table 4, Background Traffic without Project, illustrates the application of projected growth rates to generate the projected background (without project) peak hour traffic volume for the future horizon year 2026.

Table 4
Background Traffic without Project (2023-2026)

Roadway Link	Roadway Link Location	2023 Pk Hr, Background Traffic Volume (vph)	Projected Traffic Annual Growth Rate (%/yr)	Growth Factor ⁽¹⁾	2026 Projected Pk Hr Background Traffic Volume w/out Project (vph) (2)
Gordon Dr	21st Ave S to Galleon Dr	1,377 (2-way)	1.0%	1.0303	1,419
Gordon Dr	Galleon Dr to Kingstown Dr	1,377 (2-way)	1.0%	1.0303	1,419
Gordon Dr	South of Kingstown Dr	1,377 (2-way)	1.0%	1.0303	1,419

Note(s): The projected 2026 Peak Hour Background Traffic is the calculated projected future volume based on data from the City of Naples 2023 1st Quarter Count Data (peak season).

- 1) Growth Factor = $(1 + Annual Growth Rate)^3$.
- 2) 2026 Projected Volume = 2023 Peak Hour Background Traffic Volume X Growth Factor.
- 3) vph = vehicles per hour

Existing and Future Roadway Network

The existing roadway Level of Service (LOS) conditions are extracted from the adopted City of Naples – Concurrency System Management Element – Roadways Level of Service for 2014. Based on the City of Naples Capital Improvement Plan 2024-2028, no improvements are identified for the analyzed roadways.

The existing and future roadway conditions are illustrated in **Table 5**.

<u>Table 5</u> Existing and Future Roadway Conditions

Roadway Link	Roadway Link Location	2023 Roadway Condition	2023 Min. Standard LOS	2023 Peak Hr Capacity Volume (vph)	2026 Roadway Condition	2026 Min. Standard LOS	2026 Peak Dir, Peak Hr Capacity Volume (vph)
Gordon Dr	21 st Ave S to Galleon Dr	2U	С	1,570 (2-way)	2U	С	1,570 (2-way)
Gordon Dr	Galleon Dr to Kingstown Dr	2U	С	1,570 (2-way)	2U	С	1,570 (2-way)
Gordon Dr	South of Kingstown Dr	2U	С	1,570 (2-way)	2U	С	1,570 (2-way)

Note(s): 2U = 2-lane undivided roadway; 2D, 6D = 2-lane, 6-lane divided roadway, respectively; LOS = Level of Service. Vph = Vehicles per hour

Project Impacts to Area Roadway Network Link Analysis

Utilizing the adopted LOS traffic volumes, the area roadway network is evaluated to determine project impacts to the LOS capacity in the future 2026.

None of the analyzed links are projected to exceed the adopted LOS standard with or without the project at 2026 future build-out conditions. Based on this criterion, this project does not create any significant impacts to the area roadway network. **Table 6, Roadway Link Level of Service** illustrates the LOS impacts of the project on the surrounding roadway network.

Table 6, Roadway Link Level of Service illustrates the LOS impacts of the project on the roadway network closest to the project.

Table 6
Roadway Link Level of Service – With Project in the Year 2026

Roadway Link	Roadway Link Location	Peak Hr Capacity Volume (vph)	Two-Way Project Vol Added) ⁽¹⁾ (vph)	2026 Peak Hr Volume w/Project (vph)	% Volume Capacity Impact By Project	Remaining Volume Capacity (vph)	LOS Standard Exceeded Without Project? Yes/No	LOS Standard Exceeded With Project? Yes/No
Gordon Dr	21 st Ave S to Galleon Dr	1,570 (2-way)	67	1,486	4.3%	84	No	No
Gordon Dr	Galleon Dr to Kingstown Dr	1,570 (2-way)	90	1,509	5.7%	61	No	No
Gordon Dr	South of Kingstown Dr	1,570 (2-way)	45	1,464	2.9%	106	No	No

Note(s):

- 1) Refer to **Table 3** of this report.
- 2) 2026 Projected Volume = 2026 background (refer to **Table 4**) + Project Volume added.
- 3) vph = vehicles per hour

Site Access Analysis

Connection to the roadway network is an existing full movement driveway onto Gordon Drive. For more details refer to **Appendix A: Project Master Site Plan.**

Gordon Drive is an undivided two-lane City public local roadway. This roadway has a posted speed of 30-mph.

The estimated project traffic at site access drive is illustrated in **Appendix E: Turning Movement Exhibits**.

Port Royal Club Access - Gordon Drive

The project is expected to generate a total of 36 vph and 46 vph inbound right-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 40 vph for a right turn lane, the volumes meet the warrant criteria. Space is provided on the side of the road to allow vehicles to move out of the travel lane before making the turn into the project site. To preserve the existing bike lane, a right turn lane is not recommended at this location.

The project is expected to generate a total of 18 vph and 23 vph inbound left-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 20 vph

for a left turn lane, the volumes meet the warrant criteria. To preserve the wide shoulders used for walkers and bikers, it is not recommended that the left turn lane be constructed.

Port Royal has a heavy walker and biker population. Turn lanes in this area could impact pedestrian and bike mobility and safety. Turn lanes would require pedestrians to cross a wider street which would increase exposure to vehicles traveling on the roadway. In addition, the inclusion of the turn lanes would disrupt the existing bike lane. As a measure to increase safety at this location, rapid flashing beacons for the pedestrian crosswalk will be used to alert drivers of pedestrians in the existing crosswalk and promote safer conditions to encourage pedestrian activity at this location.

Port Royal Club Tennis Center Access - Gordon Drive

The project is expected to generate a total of 15 vph and 15 vph inbound left-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 20 vph for a left turn lane, the volumes do not meet the warrant criteria. The project is expected to generate a total of 6 vph and 6 vph inbound right-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 40 vph for a right turn lane, the volumes do not meet the warrant criteria.

Port Royal Club Tennis Center Access - Kingstown Drive

The project is expected to generate a total of 6 vph and 6 vph inbound left-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 20 vph for a left turn lane, the volumes do not meet the warrant criteria. The project is expected to generate a total of 15 vph and 15 vph inbound right-turning movements during the AM and PM peak hours, respectively. Applying County turn lane warrants of 40 vph for a right turn lane, the volumes do not meet the warrant criteria.

Improvement Analysis

Based on the analysis and trip distribution, the proposed project is not an adverse traffic generator for the roadway network at this location. There is adequate and sufficient roadway capacity to accommodate the proposed development generated trips without adversely affecting adjacent roadway network level of service. Based upon the results of the turn lane evaluation, no turn lane improvements are recommended at the project access. Operationally, pedestrian safety improvements are recommended for the Gordon Dr crossing at Kingston Dr.

Mitigation of Impact

The developer proposes to pay the appropriate City of Naples Road Impact Fees as building permits are issued for the project, as applicable.

Appendix A:

Project Master Site Plan



Appendix B:

Initial Meeting Checklist

INITIAL MEETING CHECKLIST

Suggestion: Use this Appendix as a worksheet to ensure that no important elements are overlooked. Cross out the items that do not apply, or N/A (not applicable).

Date: October 25, 2023 Time: N/A

Location: Online Meeting

People Attending:

Name, Organization, and Telephone Numbers

- 1) Alison Bickett, City of Naples
- 2) Norman Trebilcock, TCS
- 3) Bailey Martin, TCS
- 4) Chris Lucas, Hart Howerton
- 5) Tim McCarthy, Hart Howerton

Study Preparer:

Preparer's Name and Title: Norman Trebilcock, AICP, PTOE, PE

Organization: Trebilcock Consulting Solutions, PA

Address & Telephone Number: 2800 Davis Boulevard, Suite 200, Naples, FL 34104.

Telephone Number: 239-566-9551

Reviewer(s):

Reviewer's Name & Title: Alison Bickett, PE, Street and Stormwater Director

Organization: City of Naples Telephone Number: 239-213-5014

Applicant:

Applicant's Name: Port Royal Club

Address: 2900 Gordon Drive, Naples, FL 34102

Telephone Number: 239-261-7615

Proposed Development:

Name: Port Royal Club - Site Plan Petition

Location: 2900 Gordon Drive - west leg of the intersection of Gordon Dr and Kingstown Dr.

Land Use Type: Country Club

ITE Code #: 495 – Recreational Community Center, 931 – Fine Dining Restaurant

Description: The Port Royal Club operated before Hurricane Ian with a fine dining restaurant and a recreational community center for the benefit of the residents of Port Royal. The current redevelopment of Port Royal Club proposes a total square footage of 77,859 sf, with 10,200 sf of fine dining and 67,659 sf dedicated to the rec community center. For details, see Figure 1 -

Project Location Map.



Zoning

Existing: <u>PS – Public Service</u>

Comprehensive plan recommendation: No Change Requested: To allow the proposed re-development.

Findings of the Preliminary Study:

Study type: Since the site is less than 10 acres, this study is classified as a Minor TIS. The TIS will include weekday AM and PM peak hour trip generation, traffic distribution and assignments, and level of service analysis. The TIS will provide net new trip generation based on the existing conditions and the proposed re-development.

Operational Site Access Analysis – based on the proposed AM and PM peak hour total external trip generation of Port Royal Club. The site has an existing full movement driveway on Gordon Drive.

Roadway concurrency analysis – Weekday external net new traffic (proposed versus existing land uses) for the PM peak hour period.

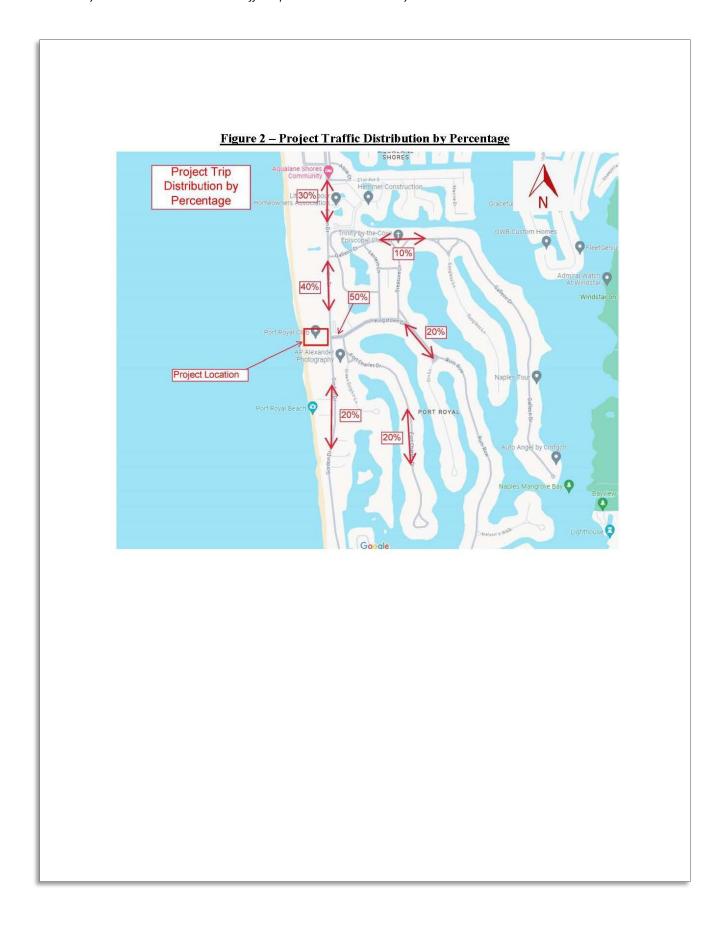
Internal Capture: No internal capture reductions are considered for this project.

Pass-by Rates: No pass-by reductions are considered for this project.

Level of Service (LOS) is "C" for all City of Naples roadways in this analysis except as follows: 5th Avenue S, between US 41 and Gulf Shore Boulevard, which is defined as a constrained facility and is exempt from level of service requirements; US 41 from Central Avenue to Four Corners is LOS "D"; US 41 from Four Corners to Davis Boulevard is LOS "E"; and Goodlette-Frank Road from Central Avenue to US 41 is LOS "E".

Pedestrian Safety – Potential options for safety improvements for the crosswalks on Gordon Drive will be discussed.

Study Type: Minor TIS Major TIS				
Minor TIS Major TIS Study Area: Boundaries: East - Gordon Dr Additional intersections to be analyzed: N/A Horizon Year(s): 2026 Analysis Time Period(s): Concurrency – Weekday PM peak hour net new trips, Operational – Weekday AM and PM peak hour Future Off-Site Developments: N/A Source of Trip Generation Rates: ITE 11th Edition Reductions in Trip Generation Rates: None: N/A Pass-by trips: N/A Internal trips (PUD): N/A Transit use: N/A Other: N/A Horizon Year Roadway Network Improvements: Horizon Year: 2026 No Roadway Network Improvements Methodology & Assumptions: Non-site traffic estimates: City of Naples traffic counts and Collier County 2023 AUIR Site-trip generation: OTISS – ITE 11th Edition Trip distribution method: Engineer's Estimate – refer to Figure 2 on the following page Traffic assignment method: project trip generation with background growth Traffic growth rate: historical growth rate on 1% minimum for City of Naples streets, 2%				
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Traffic assignment method: project trip generation with background growth Traffic growth rate: historical growth rate or 1% minimum for City of Naples streets, 2%	1 0			
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	minimum i	1 Comer County of FDO1 street	<u> 218.</u>	



SIGNATURES Norman Trebilcock Study Preparer—Norman Trebilcock Reviewers Applicant	Norman Trebílcock Study Preparer—Norman Trebilcock Reviewers		
Study Preparer—Norman Trebilcock Reviewers	Study Preparer—Norman Trebilcock Reviewers		
Applicant	Applicant		

Appendix C:

Trip Generation Calculations ITE 11th Edition

Land Use: 495 Recreational Community Center

Description

A recreational community center is a stand-alone public facility similar to and including YMCAs. These facilities often include classes and clubs for adults and children, a day care or nursery school, meeting rooms and other social facilities, swimming pools and whirlpools, saunas, tennis, racquetball, handball, pickle ball, basketball and volleyball courts; outdoor athletic fields/courts, exercise classes, weightlifting and gymnastics equipment, locker rooms, and a restaurant or snack bar. Public access is typically allowed and a membership fee may be charged. Racquet/tennis club (Land Use 491), health/fitness club (Land Use 492), and athletic club (Land Use 493) are related land uses.

Additional Data

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, the 2010s, and the 2020s in Alberta (CAN), Arizona, Indiana, Minnesota, New Hampshire, New York, Oregon, Pennsylvania, Tennessee, and Utah.

Source Numbers

281, 410, 443, 571, 618, 705, 719, 850, 866, 971, 1055

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Land Use: 931 **Fine Dining Restaurant**

Description

A fine dining restaurant is a full-service eating establishment with a typical duration of stay of at least 1 hour. A fine dining restaurant generally does not serve breakfast; some do not serve lunch; all serve dinner. This type of restaurant often requests and sometimes requires a reservation and is generally not part of a chain. A patron commonly waits to be seated, is served by wait staff, orders from a menu and pays after the meal. Some of the study sites have lounge or bar facilities (serving alcoholic beverages), but meal service is the primary draw to the restaurant. Fast casual restaurant (Land Use 930) and high-turnover (sit-down) restaurant (Land Use 932) are related uses.

Additional Data

If the fine dining restaurant has outdoor seating, its area is not included in the overall gross floor area. For a restaurant that has significant outdoor seating, the number of seats may be more reliable than GFA as an independent variable on which to establish a trip generation rate.

The sites were surveyed in the 1980s, the 1990s, and the 2010s in Alberta (CAN), California, Colorado, Florida, Indiana, Kentucky, New Jersey, and Utah.

Source Numbers

126, 260, 291, 301, 338, 339, 368, 437, 440, 976, 1053



General Urban/Suburban and Rural (Land Uses 800-999) 645

Project Information	
Project Name:	Port Royal Club - Proposed Beachside
No:	
Date:	2/14/2024
City:	
State/Province:	
Zip/Postal Code:	
Country:	
Client Name:	
Analyst's Name:	
Edition:	Trip Generation Manual, 11th Ed

Land Use	Size	Weekd	ay	AM Peak	Hour	PM Peak Hour		
		Entry	Exit	Entry	Exit	Entry	Exit	
495 - Recreational Community Center								
(General Urban/Suburban)	70.9 1000 Sq. Ft. GFA	1022	1021	89	46	83	94	
Reduction		0	0	0	0	0	0	
Internal		0	0	0	0	0	0	
Pass-by		0	0	0	0	0	0	
Non-pass-by		1022	1021	89	46	83	94	
931 - Fine Dining Restaurant (General								
Urban/Suburban)	6.06 1000 Sq. Ft. GFA	254	254	0	0	31	16	
Reduction		0	0	0	0	0	0	
Internal		0	0	0	0	0	0	
Pass-by		0	0	0	0	0	0	
Non-pass-by		254	254	0	0	31	16	
Total		1276	1275	89	46	114	110	
Total Reduction		0	0	0	0	0	0	
Total Internal		0	0	0	0	0	0	
Total Pass-by		0	0	0	0	0	0	
Total Non-pass-by		1276	1275	89	46	114	110	

PERIOD SETTING

Analysis Name : Weekday

Project Name: Port Royal Club - Proposed No:

Beachside

Date: 2/14/2024 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: Trip Generation Manual, 11th

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Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
495 - Recreational Community Center (General Urban/Suburban)	1000 Sq. Ft. GFA	70.9	Weekday	Average 28.82	1022 ⁽⁰⁾ 50%	1021 ⁽⁰⁾ 50%	2043 ⁽⁰⁾
931 - Fine Dining Restaurant (General Urban/Suburban)	1000 Sq. Ft. GFA	6.06	Weekday	Average 83.84	254 50%	254 50%	508

(0) indicates small sample size, use carefully.

PERIOD SETTING

Analysis Name : AM Peak Hour

Project Name: Port Royal Club - Proposed No:

Beachside

Date: 2/14/2024

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: Trip Generation Manual, 11th

City:

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Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
495 - Recreational Community Center (General Urban/Suburban)	1000 Sq. Ft. GFA	70.9	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	•	89 66%	46 34%	135
931 - Fine Dining Restaurant (General Urban/Suburban)	1000 Sq. Ft. GFA	6.06 ⁽¹⁾	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	•	N/A 0%	N/A 0%	4 ⁽⁰⁾

(0) indicates directional distribution was not provided in the source document. This study cannot be used for trip distribution.

(1) indicates size out of range.

PERIOD SETTING

Analysis Name : PM Peak Hour

Project Name: Port Royal Club - Proposed No:

Beachside

Date: 2/14/2024 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: Trip Generation Manual, 11th

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Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
495 - Recreational Community Center (General Urban/Suburban)	1000 Sq. Ft. GFA	70.9	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	•	83 47%	94 53%	177
931 - Fine Dining Restaurant (General Urban/Suburban)	1000 Sq. Ft. GFA	6.06	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	•	31 66%	16 34%	47

Land Use: 491 Racquet/Tennis Club

Description

A racquet/tennis club is a privately-owned facility that primarily caters to racquet sports (tennis, racquetball, pickle ball, handball, squash) both indoor and outdoor. This land use may also provide ancillary facilities, such as a whirlpool, sauna, spa, weight room, snack bar, or retail store. Some sites offer daycare. Some sites offer competitive team sports. These facilities are membership clubs that may allow access to the general public for a fee. Tennis courts (Land Use 490), health/fitness club (Land Use 492), athletic club (Land Use 493), and recreational community center (Land Use 495) are related uses.

Additional Data

Some of the sites in this land use offered racquet/tennis competitions.

The sites were surveyed in the 1980s and the 1990s in Alberta (CAN) and California.

Source Numbers

440, 970

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Project Information	
Project Name:	Port Royal Club - Tennis Center
No:	
Date:	12/5/2023
City:	
State/Province:	
Zip/Postal Code:	
Country:	
Client Name:	
Analyst's Name:	
Edition:	Trip Generation Manual, 11th Ed

Land Use	Size	PM Peak	Hour
		Entry	Exit
491 - Racquet/Tennis Club (General			
Urban/Suburban)	9 Tennis Courts	0	0
Reduction		0	0
Internal		0	0
Pass-by		0	0
Non-pass-by		0	0
492 - Health/Fitness Club (General			
Urban/Suburban)	13.32 1000 Sq. Ft. GFA	26	20
Reduction		0	0
Internal		0	0
Pass-by		0	0
Non-pass-by		26	20
Total		26	20
Total Reduction		0	0
Total Internal		0	0
Total Pass-by		0	0
Total Non-pass-by		26	20

PERIOD SETTING

Analysis Name : Weekday

Project Name: Port Royal Club - Tennis No:

Center

Date: 12/5/2023 **City:**

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: Trip Generation Manual, 11th

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Independent Land Use Size **Time Period** Method **Entry** Exit Total Variable 491 - Racquet/Tennis Tennis Courts 9 Weekday 125⁽⁰⁾ 124⁽⁰⁾ Average $249^{(0)}$ Club (General 27.71 50% 50%

(0) indicates small sample size, use carefully.

Urban/Suburban)

PERIOD SETTING

Analysis Name: PM Peak Hour

Project Name: Port Royal Club - Tennis No:

Center

Date: 12/5/2023 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: Trip Generation Manual, 11th

Eď

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
491 - Racquet/Tennis Club (General Urban/Suburban)	Tennis Courts	9	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Average 3.82	N/A 0%	N/A 0%	34 ⁽⁰⁾
492 - Health/Fitness Club (General Urban/Suburban)	1000 Sq. Ft. GFA	13.32	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and	Average 3.45	26 57%	20 43%	46

6 p.m.

(0) indicates directional distribution was not provided in the source document. This study cannot be used for trip distribution.

Appendix D:

City of Naples - Two-Way Traffic Volumes

2100/00

Two-way Volumes (Vehicles Per Day) For collector streets Arterials. In the City Of Naples

			_			_	_					_			_		_		_		_	_		_	_			_				L					
SOT			U	S	ວ	U	S	o	O	o		8	A	O	o	8	8	o	8	A	O	В	8	8	O	O	0	O	O	8	O	5	O	8	8	8	
VOLICAP	RATIO		0.43	0.54 C	0.75 C	0.71 C	0.64 C	0.68 C	0.84	0.92	0.30	0.36 B	0.06 A	0.44 C	0.48	0.23 B	0.30 B	0.51 C	0.38 B	0.22	0.46 C	0.26 B	0.33 B	0.41 B	0.45 C	0.56 C	0.76 C	0.53 C	0.60 C	0.35 B	0.56 C	0.34	0.42 C	0.39 B	0.43 B	0.32	
97.		HOUR	4,870	5,680	5,190	5,190	5,420	5,420	6,300	1,660	1,780	1,660	1,570	1,660	1,320	1,570	1,570	1,240	1,960	1,570	1,080	1,320	1,080	1,960	1,080	1,570	1,090	1,570	1,080	1,320	1,570	1,570	1,420	1,570	1,960	1,570	-
2014	PEAK	HOUR	2,114	3,088	3,907	3,683	3,442	3,665	5,301	1,522	537	599	101	734	627	366	465	627	751	347	499	346	354	805	481	878	828	835	643	468	885	537	969	614	847	208	_
MAXIMUM	2014		23,931	34,944	45,684	44,870	41,224	46,187	686'99	14,868	4,721	6,054	1,121	7,147	5,812	3,588	4,209	5,345	7,840	2,757	5,151	3,308	3,769	8,697	4,797	9,544	9,876	10,291	7,003	5,871	8,855	6,752	5,883	6,679	7,455	4,195	474,417
4TH QTR	PEAK	HOUR	2,084	2,084	3,346	3,148	2,828	3,187	4,682	1,022	346	435	94	460	553	364	372	627	425	205	408	283	353	699	388	581	639	671	639	418	813	434	388	561	651	341	
DEC.	2014		23,052	23,052	39,712	38,418	34,746	37,318	55,624	11,383	3,286	4,975	1961	5,033	5,727	3,231	3,878	4,861	4,895	2,232	4,354	2,790	3,405	7,320	3,877	5,564	8,424	7,559	6,277	4,746	8,277	5,501	3,403	6,189	6,581	3,201	389,852
3RD QTR	PEAK	HOUR	1,553	2,686	2,556	2,493	2,243	2,346	3,590	929	217	377	92	355	355	313	300	423	288	166	349	240	264	519	308	539	531	473	413	276	650	405	275	439	434	221	
SEPT.	2014		18,115	27,655	31,239	30,570	27,571	29,015	44,224	7,448	2,032	3,592	851	3,453	3,453	2,542	2,868	3,901	2,893	1,607	3,636	2,360	2,868	5,070	3,002	4,420	6,788	5,414	4,222	3,426	6,017	4,691	2,764	4,678	4,615	2,117	309,117
2ND QTR	PEAK	HOUR	1,492	2,645	2,845	2,770	2,550	2,395	3,664	929	226	376	88	347	364	229	293	450	326	192	343	300	296	490	265	736	544	532	438	319	651	428	258	443	467	354	COLUMN TOWNS
JUN.	2014		16,901	27,798	32,793	31,877	28,574	31,101	46,609	7,358	2,151	3,751	935	3,942	3,815	2,441	3,129	4,219	3,483	2,017	3,739	2,455	3,139	5,197	2,892	5,544	7,039	5,980	4,448	3,839	6,613	5,087	2,556	4,765	5,199	2,638	324,024
1ST QTR	PEAK	HOUR	2,114	3,088	3,907	3,683	3,442	3,665	5,301	1,522	537	599	101	734	627	366	465	588	751	347	499	346	354	805	481	878	828	835	643	468	885	537	969	614	847	508	REPORTED AND
MAR.	2014		23,931	34,944	45,684	44,870	41,224	46,187	62,989	14,868	4,721	6,054	1,121	7,147	5,812	3,588	4,209	5,345	7,840	2,757	5,151	3,308	3,769	8,697	4,797	9,544	9,876	10,291	7,003	5,871	8,855	6,752	5,883	6,679	7,455	4,195	474,417
ARTERIAL	OR	COLLECTOR STREET	GOLDEN GATE PKWY (CR 886)	GOODLETTE ROAD (CR 851)	US 41 (N OF CR 886)	US 41 (S OF CR 886)	US 41 (6 AV N/7 AV N)	US 41 (W OF CR 851)	US 41 (E OF CR 851)	PARKSHORE DRIVE	GULFSHORE BLVD N	HARBOUR DRIVE	CREECH ROAD	MOORING LINE DRIVE	CRAYTON ROAD	22ND AVENUE NORTH	ORCHID DRIVE	FLEISCHMANN BLVD	GULFSHORE BLVD	BANYAN BLVD	7TH AVENUE NORTH	10TH STREET	5TH AVENUE NORTH	CENTRAL AVENUE	8TH STREET	3RD AVENUE SOUTH	5TH AVENUE SOUTH	9TH STREET	BROAD AVENUE SOUTH	3RD STREET	GORDON DRIVE	SANDPIPER ST	GULFSHORE BLVD SO	4TH AVENUE NORTH	NEAPOLITAN WAY	WEST RD	
TRAFFIC	COUNT	STATION	8	10	15	16		23	24	30	Г	Г	38	Г	40	43	4	45	48	Г		Г	Г	Γ			20	72	92	11	79	83	85			91	

Appendix E:

Turning Movement Exhibits



