



Rincon Consultants, Inc.

250 East 1st Street, Suite
Los Angeles, California 90012

213 788 4842 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

May 11, 2020
Project No. 18-06469

Romi Archer, Senior Project Manager
Circlepoint
2100 West Oranewood Avenue, Suite 165
Orange, CA 92868
(714) 617-2179

**Subject: 1570 Brookhollow Drive, Tapestry Hotel Project, Energy Letter Report
1570 Brookhollow Drive, Santa Ana, California, 92701**

Dear Ms. Archer:

This letter report analyzes the potential energy impacts of the Tapestry Hotel Project (project) proposed at 1570 Brookhollow Drive in Santa Ana, California. Rincon Consultants, Inc. (Rincon) prepared this letter report for use by the City of Santa Ana in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). This analysis considers both temporary impacts that would result from project construction and long-term energy impacts associated with operation of the project.

Project Location

The project site is a 2.8-acre property comprising three assessor's parcels, located at 1570 Brookhollow Drive in Santa Ana, California (Assessor Parcel Numbers 016-221-27, 016-221-28, and 016-221-29). The project site is currently vacant but was previously developed as a restaurant/bar and parking area. The project site is bound by commercial, business park and light industrial properties to the north, south, and northwest, across South Grand Avenue. Directly across South Grand Avenue to the west are seven other hotels within an approximately one-mile radius. The Costa Mesa Freeway abuts the eastern portion of the project site.

Project Description

Development of the project would entail construction of a six-story, 79,375 square-foot hotel with 139 rooms, a pool, gym, roof deck and two natural gas fireplaces. A separate 2,000 square foot free-standing single-story restaurant would be constructed at the southwest corner of the lot next to Grand Avenue. The building footprint would be approximately 13,400 square feet. In addition, 142 parking spaces would be provided on site in paved, surface lots. Of these spaces, six would be reserved for handicapped parking (two for the restaurant and four for the hotel). Additionally, ten bicycle spaces would be provided separate from the vehicle parking lot (four for the restaurant and six for the hotel). The total construction area would include 100,738 square feet of impervious surface composing 82 percent of the project site (See Attachment 1).



Background

Electricity and Natural Gas

In 2018, California used 285,488 gigawatt-hours (GWh) of electricity, of which 31 percent were from renewable resources.¹ California also consumed approximately 12,638 million U.S. therms (MMthm) of natural gas in 2018. Electricity and natural gas for the project site would be provided by Southern California Edison (SCE) and SoCalGas. Table 1 and Table 2 show SCE’s total electricity consumption and SoCalGas natural gas consumption for its service areas as well as consumption by sector. In 2018, SCE provided approximately 29.9 percent of the total electricity. In 2018, SoCalGas provided approximately 40.8 percent of the total natural gas usage in California.

Table 1 Electricity Consumption in the SCE Service Area in 2018

Agriculture and Water Pump	Commercial Building	Commercial Other	Industry	Mining and Construction	Residential	Streetlight	Total Usage
3192.2	31,573.8	4,367.4	13,391.6	2,390.0	29,864.9	495.9	85,275.9

Notes: All usage expressed in GWh²

Table 2 Natural Gas Consumption in SoCalGas Service Area in 2018

Agriculture and Water Pump	Commercial Building	Commercial Other	Industry	Mining and Construction	Residential	Total Usage
77.6	913.0	74.5	1,714.4	229.2	2,147.4	5,156.1

Notes: All usage expressed in MMthm³

Petroleum

In 2018, approximately 28 percent of the state’s energy consumption was used for transportation.⁴ Californians presently consume over 19 billion gallons of motor vehicle fuels per year. Although California’s population and economy are expected to continue to grow, gasoline demand is projected to decline from roughly 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030, a 20 to 22 percent reduction. This forecast decline is due to both increasing use of electric vehicles and improved fuel economy for new gasoline vehicles.⁵

1 California Energy Commission (CEC). 2019. Total System Electric Generation. Available at: https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html (accessed August 2019).

2 California Energy Commission (CEC). 2018. Electricity Consumption by Entity. Available at: <https://ecdms.energy.ca.gov/elecbyutil.aspx> (accessed August 2019).

3 California Energy Commission (CEC). 2018. Gas Consumption by Entity. Available at: <https://ecdms.energy.ca.gov/gasbyutil.aspx> (accessed August 2019).

4 United States Energy Information Administration (EIA). 2019. Monthly Energy Review, July. Table 2.5, Transportation Sector Energy Consumption. Available at: <https://www.eia.gov/totalenergy/data/monthly/pdf/mer.pdf> (accessed August 2019).

5 California Energy Commission (CEC). 2019. California Energy Almanac. Available at: <https://www.energy.ca.gov/almanac/> (accessed August 2019).



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Methodology

The project's construction and operational energy usage were estimated using the California Emissions Estimator Model (CalEEMod), version 2016.3.2 (see Attachment 2). CalEEMod uses project-specific information, including the project's land uses, square footages for different uses (e.g., mid-rise apartments), and location, to estimate a project's construction and operational emissions and energy consumption. Consumption factors were drawn from CalEEMod for project natural gas and electricity consumption. Energy demand for off-road construction equipment is based on anticipated equipment, usage hours, horsepower, load factors, and construction phase duration provided by the CalEEMod output, as well as Exhaust and Crankcase Emission Factors for Nonroad Compression Ignition Engines.⁶

Operational energy demand considers transportation-based fuel consumption as well as electricity and natural gas consumption associated with the project. Transportation fuel demand for operation of the project was estimated based on the annual vehicle miles travelled (VMT) generated following project buildout and fuel efficiency was based upon the California Air Resources Board's (CARB's) EMFAC2014 data.⁷ Electricity and natural gas consumption were also based on CalEEMod outputs and compared to existing consumption in the SCE and SoCalGas service areas.

Thresholds

CEQA Thresholds

To determine whether a project would have a significant impact to energy, Appendix G of the *CEQA Guidelines* requires consideration of whether a project would:

1. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operations, or
2. Conflict with or obstruct a state of local plan for renewable energy or energy efficiency.

Impact Analysis

Threshold 1: Would the project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during project construction or operations?
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Construction Energy Demand

Construction activity would use energy in the form of petroleum-based fuels used to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the

⁶ United States Environmental Protection Agency (USEPA). 2018. Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b. July 2018. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P100UXEN.pdf>

⁷ California Air Resources Board (CARB). 2014. EMFAC2014 Web Database. Available at: <https://arb.ca.gov/emfac/2014/>



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project site, and vehicles used to deliver materials to the site. The project would require site preparation and grading, including hauling material off-site; pavement and asphalt installation; building construction; architectural coating; and landscaping and hardscaping.

The total consumption of gasoline and diesel fuel during project construction was estimated using the assumptions and factors from CalEEMod (Attachment 2). Table 3 summarizes the estimated construction energy consumption for the project. Construction equipment operation, haul trips, and vendor trips, would consume an estimated 67,091 gallons of diesel fuel over the project construction period. Worker trips would consume an estimated 11,883 gallons of petroleum during project construction.

Table 3 Estimated Fuel Consumption during Construction

Fuel Type	Gallons of Fuel	MIMBtu
Diesel Fuel (Construction Equipment) ¹	26,301	3,352
Diesel Fuel (Hauling & Vendor Trips) ²	40,790	5,199
Other Petroleum Fuel (Worker Trips) ³	11,883	1304
Total	78,974	9,855

Source: Fuel demand rates for construction equipment, hauling and vendor trips, and worker trips are derived from CalEEMod outputs. See Attachment 2 for calculations and analysis.

The construction energy estimates represent a conservative estimate as the construction equipment used in each phase of construction was assumed to be operating every day of construction. Construction equipment would be maintained to all applicable standards as required and construction activity and associated fuel consumption and energy use would be temporary and typical for construction sites. It is also reasonable to assume that contractors would avoid wasteful, inefficient, and unnecessary fuel consumption during construction to reduce construction costs. Therefore, the proposed project would not involve the inefficient, wasteful, and unnecessary use of energy during construction, and the construction-phase impact related to energy consumption would be less than significant.

Operational Energy Demand

Operation of the project would require energy use in the form of electricity, natural gas, and gasoline consumption. Natural gas and electricity would be used for heating and cooling systems, lighting, appliances, water use, and the overall operation of the project. Gasoline consumption would be attributed to vehicular travel associated with guests and employees traveling to and from the project site. The project's estimated number of average daily trips from CalEEMod is used to determine the energy consumption associated with fuel use from project operation. According to the CalEEMod calculations, the project would result in 1,953,784 annual VMT. Based upon the project's VMT and the fleet mix and fuel economy estimates in CalEEMod, total gasoline consumption associated with project operation is estimated at 67,356 gallons annually and an annual total diesel consumption of approximately 21,106 gallons (Attachment 3).



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The project's electricity demand would be served by SCE, which provided 85,275 GWh of electricity in 2018. Operation of the project would consume approximately 0.015 GWh of electricity per year, which would be less than 0.01 percent of SCE's current electricity demand (electricity use provided in the CalEEMod output of Attachment 2). The project's natural gas demand would be serviced by SoCalGas, which provided approximately 4,795 MMthm per year in 2018. Estimated natural gas consumption for the project would be approximately 0.048 MMthm per year, which would be less than 0.01 percent of SoCalGas' current natural gas demand (natural gas use provided in the CalEEMod output of Attachment 2). Given the above considerations, the project would have a negligible impact to overall demand for SCE and SoCalGas. .

The project would be required to comply with all standards set in California Building Code (CBC) Title 24, which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation. California's Green Building Standards Code (CALGreen; California Code of Regulations, Title 24, Part 11) requires implementation of energy efficient light fixtures and building materials into the design of new construction projects. Furthermore, the 2019 Building Energy Efficiency Standards (CBC Title 24, Part 6) requires newly constructed buildings to meet energy performance standards set by the Energy Commission. These standards are specifically crafted for new buildings to result in energy efficient performance so that the buildings do not result in wasteful, inefficient, or unnecessary consumption of energy. The standards are updated every three years and each iteration establishes stricter energy efficiency standards than the previous. For example, according to the CEC, residences built with the 2019 standards will use about seven percent less energy due to energy efficiency measures versus those built under the 2016 standards, or 53 percent less energy with rooftop solar, and nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.⁸ Furthermore, the project would continue to reduce its use of nonrenewable energy resources as electricity generated by renewable resources provided by SCE continues to increase to comply with state requirements through Senate Bill 100, which requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

To help achieve and surpass Title 24 reduction targets, the project applicant proposes to incorporate several energy efficient features into overall project design. Energy efficient design features include solar energy infrastructure, energy efficient appliances, low flow plumbing fixtures, and water efficient features throughout the project site. Approximately five percent of the project's total parking would be allocated to electric vehicle (EV) stations. The hotel would include six bicycle parking spaces along with the restaurant allocating four bicycle parking spaces. Additionally, the project would provide Vanpool service to help encourage the reduction of single use vehicles.

In conclusion, energy demand associated with project construction would be temporary and typical of similar projects, and would not result in the wasteful, inefficient, or unnecessary consumption of energy. While project operation would involve the consumption of fuel, natural gas, and electricity, the project's energy usage would be in conformance with the latest version of California's Green Building Standards

⁸ California Energy Commission (CEC). 2018. 2019 Building Energy Efficiency Standards. March. Available at: https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf (accessed August 2019).



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Code and the Building Energy Efficiency Standards. In addition, SCE has sufficient supplies to serve the project and project impacts to regional electricity and natural gas demand would be negligible. Therefore, the project would have a less than significant impact.

Threshold 2: Would the project conflict with or obstruct a state of local plan for renewable energy or energy efficiency?

As mentioned above, SB 100 mandates 100 percent clean electricity for California by 2045. Because the project would be powered by the existing electricity grid, it would eventually be powered by renewable energy mandated by SB 100 and would not conflict with this statewide plan. Additionally, as discussed above, the project would be subject to energy efficiency standards pursuant to CCR Title 24 requirements and has a target to exceed Title 24 targets by ten percent.

The Santa Ana Climate Action Plan (CAP) was adopted by the City in December of 2015 and contains emissions-reduction measures that the City may implement, several of which are energy-related. The City's CAP contains greenhouse gas (GHG) emissions reduction strategies, addresses the community's potential vulnerability to climate change impacts, and provides clear implementation and monitoring programs to direct climate action in Santa Ana.

The City's existing CAP includes numerous policies broken down by Community Wide Energy Measures and Municipal Operations Energy Measures. Table 4 and Table 5 compare the project to applicable City CAP and General Plan policies. The project would be consistent with measures and actions from the both the CAP and General Plan.



Table 4 Climate Action Plan Project Consistency

Measure	Project Consistency
Energy	
<p>Property Assessed Clean Energy (PACE) Financing for Commercial Properties</p> <p>PACE is an energy efficiency financing program operated by private contractors in many communities in California. PACE financing is available for a wide range of energy and water saving measures, and for renewable energy generation. Repayment of loans through the program is made on the property tax bill for the property. Communities must opt into the program, the Santa Ana program began January 2015. PACE makes it easier for owners of commercial property to implement energy efficiency and renewable energy projects that can save them money, make their properties more valuable, and create local jobs. The program is offered by private entities. Many cities and counties in California have already opted into the program.</p>	<p>Consistent</p> <p>This measure is incentive based and the project applicant ay decide to implement energy efficiency and renewable energy projects financed through the PACE program. The project would include green building features that include solar energy, water efficient features, low flow plumbing fixtures, energy efficient appliances, and EV stations. The project would not preclude the proponent from participating in this incentive-based program.</p>
<p>Southern California Edison Small and Medium Business Direct Install</p> <p>The California Public Utilities Commission authorizes certain energy efficiency programs through Southern California Edison (SCE). SCE sends trained energy efficiency contractors to help small businesses, up to 199 kW, identify ways to save electricity. SCE provides free upgrades to customers that may include energy efficient lighting, signage, sensors, refrigeration, sun-block window film, and programmable thermostats. These are provided through the Small and Medium Direct Install program at no cost to the City or to the customer. The current program provides up to \$10,000 for business from 0-99 kW and \$15,147 for business from 100-199 kW.</p>	<p>Consistent</p> <p>This measure is incentive based and the project proponent may decide to work with SCE to identify ways to save electricity during construction. The project would not preclude the proponent from participating in this incentive based program.</p>
<p>Solar Photovoltaic Systems— New Private Installs</p> <p>This measure accounts for the impact of new private installations of solar Photovoltaic (PV) systems in Santa Ana. Rebates or incentive payments for installation of solar PV are available as part of the California Solar Incentive program, which is administered by the California Energy Commission. For a limited time, the City is offering solar incentives which may include permit fee waiver, free plan check services, and free building inspection for solar PV systems.</p>	<p>Consistent</p> <p>This measure is incentive based and the project proponent may decide to take advantage of the California Solar Incentive program or the City’s solar incentive program, if still available. Solar energy features would be included in the design of this project. The project would not preclude the proponent from participating in this incentive based program.</p>
<p>Title 24 Energy Efficiency Standards – Commercial</p> <p>Title 24 is the energy code that establishes the minimum energy efficiency for new construction in California. The code is set by the State and enforced locally by the City of Santa Ana through the building permit review and inspection process. Amended standards went into effect January 1, 2014. This measure reflects the expected savings from those amended standards in projected new commercial construction in the City.</p>	<p>Consistent</p> <p>Title 24 established the minimum energy efficiency for new construction in California. The code is set by the State and enforced locally by the City of Santa Ana. The project would exceed Title 24 standards by 10%.</p>



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Table 5 General Plan Strategies Project Consistency

Strategies	Project Consistency
Energy	
Reduce land use-related energy consumption by requiring energy efficient planning of new development and by encouraging higher density mixed use development.	Consistent The project would be required to comply with Title 24 and the California Building Code. Additionally, the project would include design features such solar infrastructure, EV stations, low flow plumbing, and energy efficient appliances to reduce overall land-use related energy consumption.
Reduce energy consumption in construction and occupancy of buildings by enforcement and strengthening of existing building codes	Consistent Title 24 established the minimum energy efficiency in the California Building Code for new construction in California. The code is set by the State and enforced locally by the City of Santa Ana. The project would exceed Title 24 standards by 10%.

Conclusions and Recommendations

Construction and operational energy impacts would be less than significant. Additionally, the project would be consistent with both the City’s General Plan Energy Strategies as well as the CAP’s Energy measures. Therefore, no measures are recommended.

Thank you for the opportunity to assist with this assignment. Please do not hesitate to contact us if you have questions about this report.

Sincerely,
Rincon Consultants, Inc.

Kari Zajac, MESM
Project Manager

Joe Power, CEP
Senior Principal/Vice President

Attachments

- Attachment 1 Project Site Plan
- Attachment 2 California Emissions Estimator Model Results



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Attachment 3 EMFAC Energy Calculation Spreadsheet

PROJECT SUMMARY

SCOPE OF WORK:

CONSTRUCTION OF A NEW 82'-0" HEIGHT 6 STORY BUILDING WITH 110 SUITS AND ROOF TOP LOUNGE.

CODE ANALYSIS:

USE: HOTEL / COMMERCIAL
 29-5-9: SD-8 - Specific Development
 LOT SIZE: 123,042.5 SQ.FT. (2.82 ACRES)
 OCCUPANCY GROUP: R-1
 CONSTRUCTION TYPE: TYPE I-A 1ST FLOOR AND V-A 2ND TO 5TH FLOOR (FULLY SPRINKLER)
 PROPOSED HEIGHT: 6 STORIES, 82'-0"
 SPRINKLED: YES

FAR: HOTEL (74,315 S.F.) + RESTAURANT (2,000 S.F.) = 81,315 SQ.FT.
 81,315/123,042.5 = .66

LOT COVERAGE: HOTEL (4,000 S.F.) + RESTAURANT (2,000 S.F.) = 6,000 SQ.FT.
 6,000/123,042.5 = 4.9%

BUILDING AREAS	GUEST ROOMS	FLOOR AREA
1ST FLOOR	0 KEYS	13,355 SQ.FT.
2ND FLOOR	26 KEYS	13,400 SQ.FT.
3RD FLOOR	28 KEYS	13,400 SQ.FT.
4TH FLOOR	28 KEYS	13,400 SQ.FT.
5TH FLOOR	28 KEYS	12,910 SQ.FT.
6TH FLOOR	28 KEYS	12,910 SQ.FT.
TOTAL		74,315 SQ.FT.
ROOF DECK AREA:		7,454 sq.ft.

PARKING ANALYSIS:

SURFACE PARKING WITH TOTAL OF 176 PARKING SPACES AND 12 BICYCLE SPACE.

PARKING SPACES	H/C SPACE	STAN. SPACE	TOTAL
SURFACE	6	136	142
TOTAL PARKING			142

LANDSCAPE AREA:

GROUND FLOOR: = 33,423 S.F. / 123,042.5 SQ.FT. = .275 = 28%
 2ND FLOOR: = 200 S.F.
 ROOF DECK: = 422 S.F.
 TOTAL LANDSCAPE AREA = 34,545 S.F.

CONSTRUCTION TYPE PER TABLE 503, 2016 CBC:

R-1 TYPE I-B (FULLY SPRINKLER)

OCCUPANCY SEPARATION PER TABLE 508.4, 2016 CBC

GROUP A-2 AND R-1 = 1 HR

OCCUPANT LOAD PER TABLE 1004.1.2:

FIRST FLOOR	LOBBY	BAR / LOUNGE	HOTEL RESTAURANT	KITCHEN	MEETING ROOM #1	MEETING ROOM #2	MEETING ROOM #3	MEETING/LOUNGE	OFFICES, LAUNDRY, STORAGE	BREAK ROOM	TOTAL
	1,200 SQ.FT. / 100 = 12 OCCUPANTS	668 SQ.FT. / 15 = 45 OCCUPANTS	1400 SQ.FT. / 15 = 126 OCCUPANTS	1080 SQ.FT. / 200 = 5 OCCUPANTS	546 SQ.FT. / 15 = 36 OCCUPANTS	542 SQ.FT. / 15 = 36 OCCUPANTS	546 SQ.FT. / 15 = 36 OCCUPANTS	633 SQ.FT. / 15 = 42 OCCUPANTS	5843 SQ.FT. / 200 = 29 OCCUPANTS	302 SQ.FT. / 15 = 20 OCCUPANTS	390 OCCUPANTS

SECOND FLOOR	GYM	SFA	POOL	POOL DECK	TOTAL
	820 SQ.FT. / 50 = 16 OCCUPANTS	1106 SQ.FT. / 100 = 11 OCCUPANTS	486 SQ.FT. / 50 = 10 OCCUPANTS	2,400 SQ.FT. / 15 = 160 OCCUPANTS	4,812 SQ.FT. 197 OCCUPANTS

GROUP "R-1"	2ND FLOOR	3RD FLOOR	4TH FLOOR	5TH FLOOR	6TH FLOOR	TOTAL
	10,626 SQ. FT. / 200 = 53 OCCUPANTS	13,400 SQ. FT. / 200 = 67 OCCUPANTS	13,400 SQ. FT. / 200 = 67 OCCUPANTS	12,910 SQ. FT. / 200 = 65 OCCUPANTS	12,910 SQ. FT. / 200 = 65 OCCUPANTS	317 OCCUPANTS

ROOF DECK FLOOR	ROOF DECK	HALLWAYS, STORAGE, RESTROOMS	TOTAL
	5,564 SQ. FT. / 15 = 371 OCCUPANTS	1,845 SQ.FT. / 200 = 9 OCCUPANTS	1,454 SQ.FT. 380 OCCUPANTS

ALLOWABLE FLOOR AREA PER CHAPTER 5, 2016 CBC:

R-1 (1ST-6TH) TYPE I-B = UL / 12 STORIES > 74,315 SQ. FT.
 A-2 (ROOF DECK) TYPE I-B = UL / 12 STORIES > 7,454 SQ. FT.

ALLOWABLE HEIGHT AND NUMBER OF STORIES PER CHAPTER 5, 2016 CBC:

EACH SEPARATED OCCUPANCY SHALL COMPLY WITH THE BUILDING HEIGHT LIMITATIONS BASED ON THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SEC. 503.1 THEREFOR: 6 STORIES OCCUPANCY R-1 TYPE "I-B" AND ROOF DECK WITHIN ALLOWABLE LIMITS PER ANALYSIS PROVIDED ABOVE.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER TABLE 602, 2016 CBC

FSD	FOR R-1 IN TYPE I-B
X < 5'	I
5' < X < 10'	I
10' < X < 30'	I
X > 30'	0

EXIT ACCESS STAIRWAYS PER 2016 CBC

SEC. 1011.2 - ONE STAIRWAY SHALL EXTENDED TO THE ROOF SURFACE.

SEC. 1023.2 - EXIT ACCESS STAIRWAY ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 2HR.

EXIT ANALYSIS PER CHAPTER 10, 2016 CBC:

	STAIR EGRESS CALCULATIONS								
	EXITS		EXIT			STAIR			
	#1 OCCUPANTS	#2 OCCUPANTS	WIDTH FACTOR	REQ'D WIDTH	PROVIDED WIDTH	WIDTH FACTOR	REQ'D WIDTH	PROVIDED WIDTH	
1ST FLOOR	40	40	0.15	6	60	0.2	8	48	
2ND FLOOR	40	40	0.15	6	60	0.2	8	48	
3RD FLOOR	33	34	0.15	5.1	48	0.2	6.8	48	
4TH FLOOR	33	34	0.15	5.1	48	0.2	6.8	48	
5TH FLOOR	32	33	0.15	4.45	36	0.2	6.6	48	
6TH FLOOR	32	33	0.15	4.45	36	0.2	6.6	48	
ROOF FLOOR	140	140	0.15	28.5	36	0.2	38	48	

PLUMBING OCCUPANCY CALCULATIONS

ROOM	USE	AREA	LOAD FACTOR	OCCUPANCY
FITNESS / GYM	A-2	820	30	27
MEETING ROOM	A-2	2,317	30	77
BAR / LOUNGE	A-2	668	30	22
BUSINESS CENTER	A-2	319	30	10.6
KITCHEN, SERVING AREA	B	1,080	200	5.4
OFFICES	B	710	200	3.85
EMPLOYEE ROOM	B	300	200	1.5

MINIMUM PLUMBING FACILITIES PER TABLE 422.1, CHAPTER 4, 2016 CBC

SPACE	OCCUPANCY	REQUIRED FIXTURES						PROPOSED FIXTURES												
		WATER CLOSET		LAV.		URINALS	WATER CLOSET		LAV.		URINALS									
		M	F	M	F	MALE	M	F	M	F	MALE									
FITNESS / GYM	16	M-9	F-9																	
COMMON AREA	12	M-22	F-22																	
EMPLOYEE	9																			

BUILDING ELEMENT	TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)									
	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
	A	B	A ^a	B	A ^a	B	HT	A ^a	B	
Primary structural frame ^a (see Section 202)	3 ^a	2 ^a	1	0	1	0	HT	1	0	
Bearing walls										
Exterior ^a	3	2	1	0	2	2	2	1	0	
Interior	3 ^a	2 ^a	1	0	1	0	1/HT	1	0	
Nonbearing walls and partitions	See Table 602									
Exterior	See Table 602									
Nonbearing walls and partitions	See Table 602									
Interior ^a	0	0	0	0	0	0	See Section 602.4.6	0	0	
Floor construction and associated secondary members (see Section 202)	2	2	1	0	1	0	HT	1	0	
Roof construction and associated secondary members (see Section 202)	1 1/2	1 ^{b,c}	1 ^{b,c}	0 ^a	1 ^{b,c}	0	HT	1 ^{b,c}	0	

For St. 1 foot = 304.8 mm.
 a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
 b. Except in Group A, E, F-1, H, I, L, M, R-1, R-2, R-2.1 and S-1 occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
 b.2 For Group A, E, I, L, R-1, R-2 and R-2.1 occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, fire protection of members other than the structural frame shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
 b.3 For one-story portions of Group A and E assembly occupancies the roof-framing system of Type II A or Type III A construction may be of unprotected construction when such roof-framing system is open to the assembly area and does not contain concealed spaces.
 c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.
 d. An approved automatic sprinkler system in accordance with Section 903.3.1.1 shall be allowed to be substituted for 1-hour fire-resistance-rated construction, provided such system is not otherwise required by other provisions of the code or used for an allowable area increase in accordance with Section 506.3 or an allowable height increase in accordance with Section 504.2. The 1-hour substitution for the fire resistance of exterior walls shall not be permitted.
 e. Not less than the fire-resistance rating required by other sections of this code.
 f. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
 g. Not less than the fire-resistance rating as referenced in Section 704.10

Table IIB-224.2 Guest Rooms with Mobility Features

Total Number of Guest Rooms Provided	Minimum Number of Required Rooms Without Roll-in Showers	Minimum Number of Required Rooms With Roll-in Showers	Total Number of Required Rooms
1 to 25	(begin underline) 0 (end underline) (begin strikeout) 1 (end strikeout)	(begin underline) 1 (end underline) (begin strikeout) 0 (end strikeout)	1
26 to 50	(begin underline) 1 (end underline) (begin strikeout) 2 (end strikeout)	(begin underline) 1 (end underline) (begin strikeout) 0 (end strikeout)	2
51 to 75	3	1	4
76 to 100	4	1	5
101 to 150	5	2	7
151 to 200	6	2	8
201 to 300	7	3	10
301 to 400	8	4	12
401 to 500	9	4	13
501 to 1000	2 percent of total	1 percent of total	3 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	10, plus 1 for each 100, or fraction thereof, over 1000	30, plus 2 for each 100, or fraction thereof, over 1000

Table IIB-224.4 Guest Rooms with Communication Features

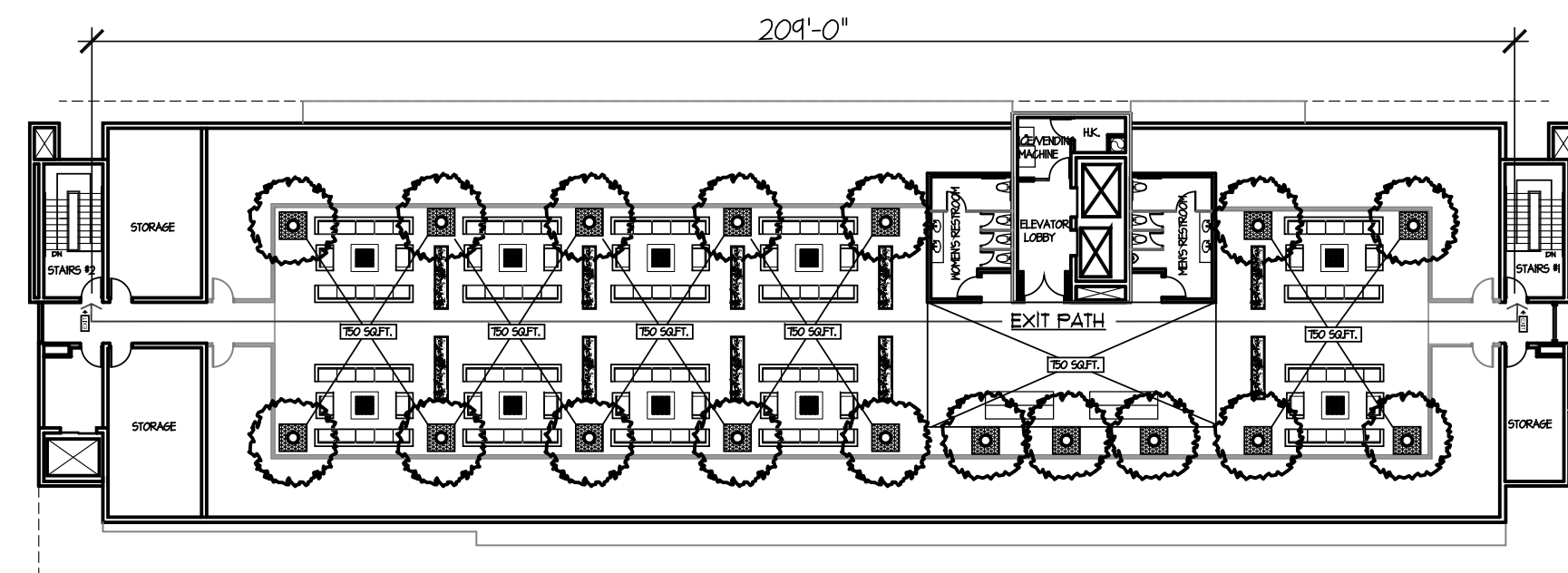
Total Number of Guest Rooms Provided With Communication Features	Minimum Number of Required Guest Rooms
2 to 25	2
26 to 50	4
51 to 75	7
76 to 100	9
101 to 150	12
151 to 200	14
201 to 300	17
301 to 400	20
401 to 500	22
501 to 1000	5 percent of total
1001 and over	50, plus 3 for each 100 over 1000

CALCULATION FOR PROVIDED ROOMS PER ADA STANDARDS FOR ACCESSIBLE DESIGN PER TABLE 224.2 AND 224.4

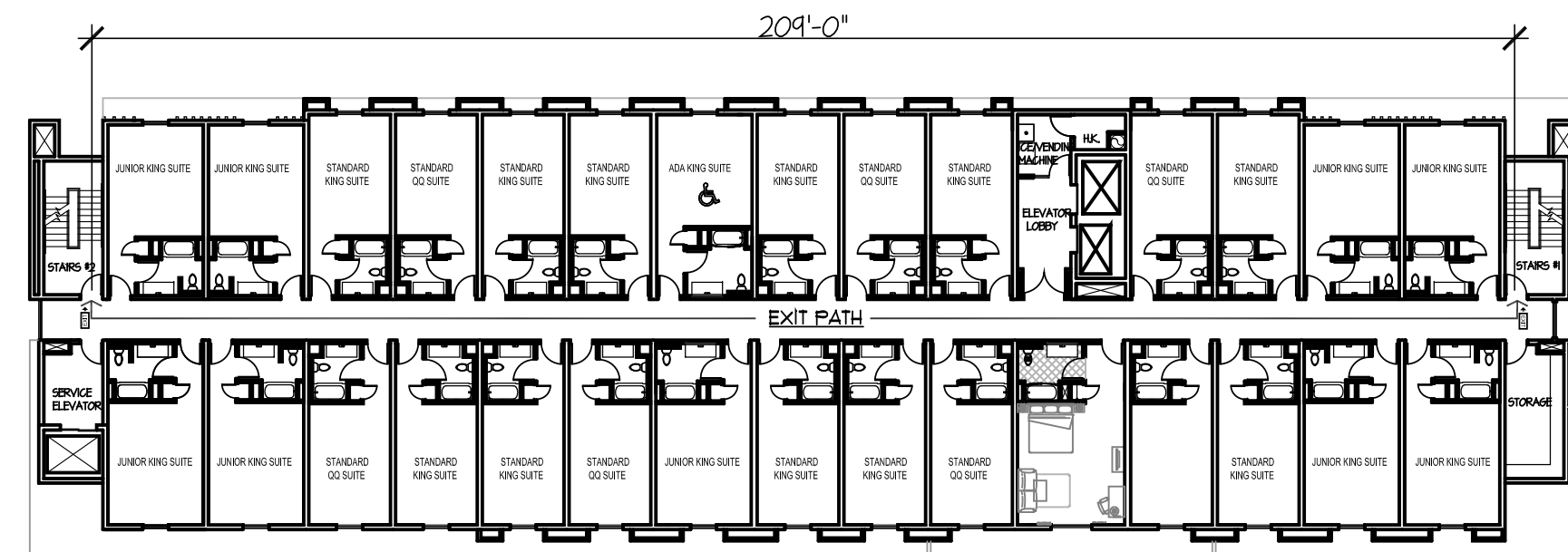
TOTAL NUMBER OF GUEST ROOMS = 85
 TOTAL PROVIDED GUEST ROOMS WITH MOBILITY FEATURES = 5 > REQUIRED 5
 4 WITHOUT ROLL IN SHOWER ONE WITH ROLL IN SHOWER
 PROVIDED GUEST ROOMS WITH HEARING AID COMPATIBLE = 4 = REQUIRED 4

Table IIB-208.2 PARKING SPACES

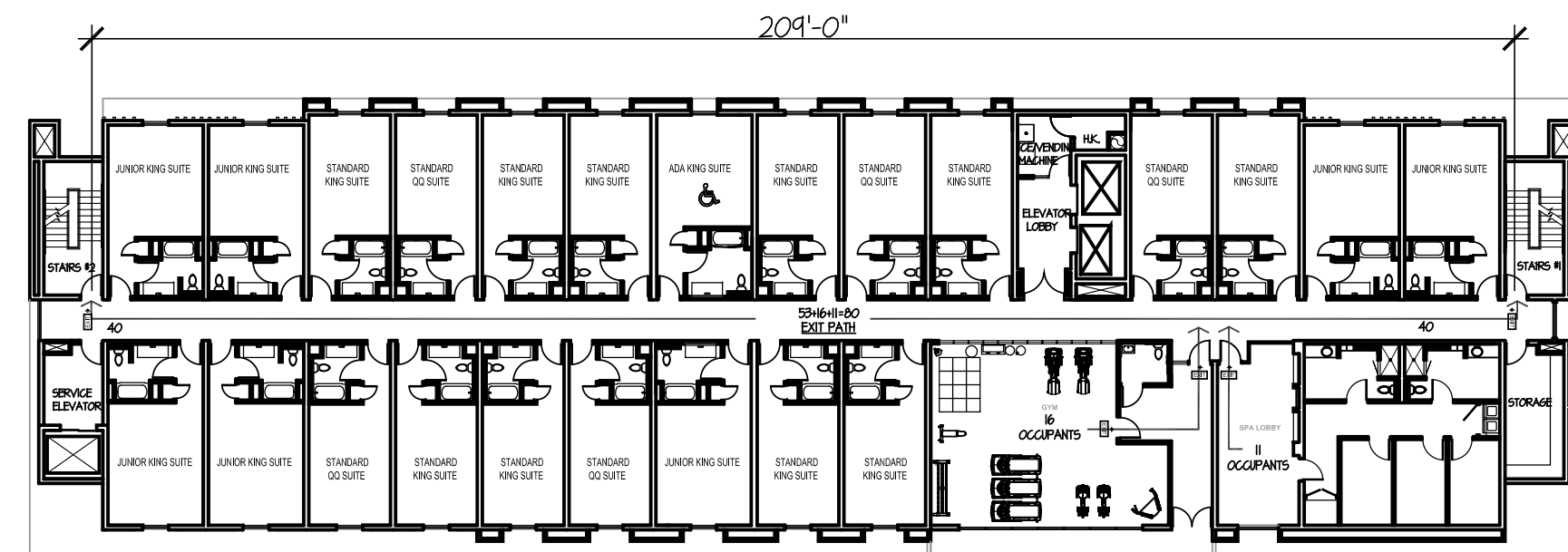
Total Number of parking spaces provided in parking facility	Minimum Number of required accessible parking spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 of each 100, or fraction thereof, over 1000



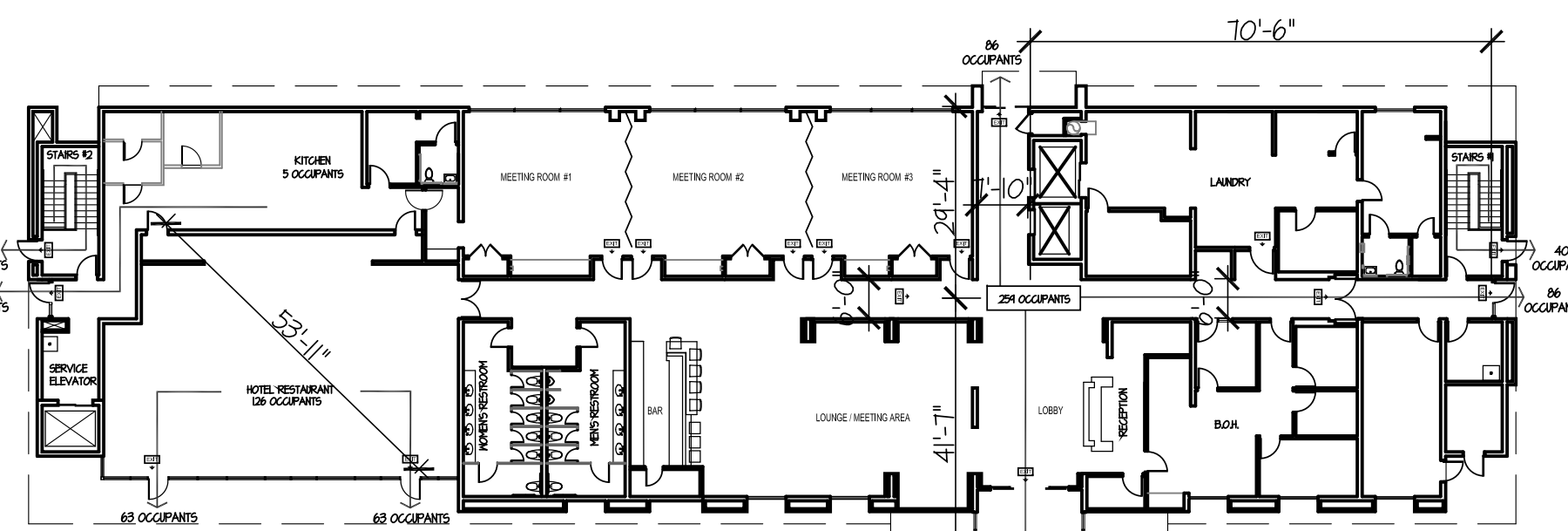
4 ROOF DECK PLAN SCALE: N/A



3 3RD TO 6TH FLOOR PLAN SCALE: N/A

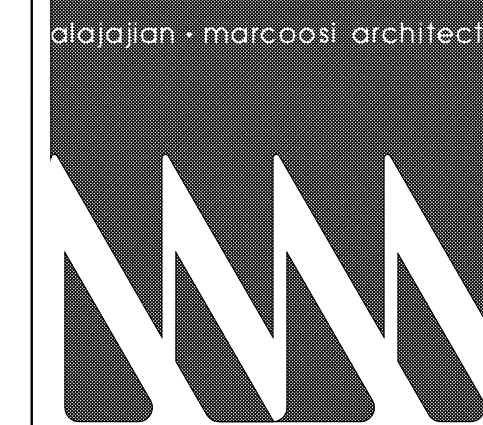


2 2ND FLOOR PLAN SCALE: N/A



1 1ST FLOOR PLAN SCALE: N/A

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Alajajian Marcoosi Architects Inc.
 320 W. Arden Ave. Suite 120
 Glendale, CA 91203
 Phone: (818) 244-5130
 Fax: (818) 551-1613
 E-mail: aram@amaincs.com

Owner:
MODA HOTELS, LLC

Owner Address:
 17510 PIONEER BLVD. #221-A
 ARTESIA, CA 90701

Project Name:
TAPESTRY BY HILTON

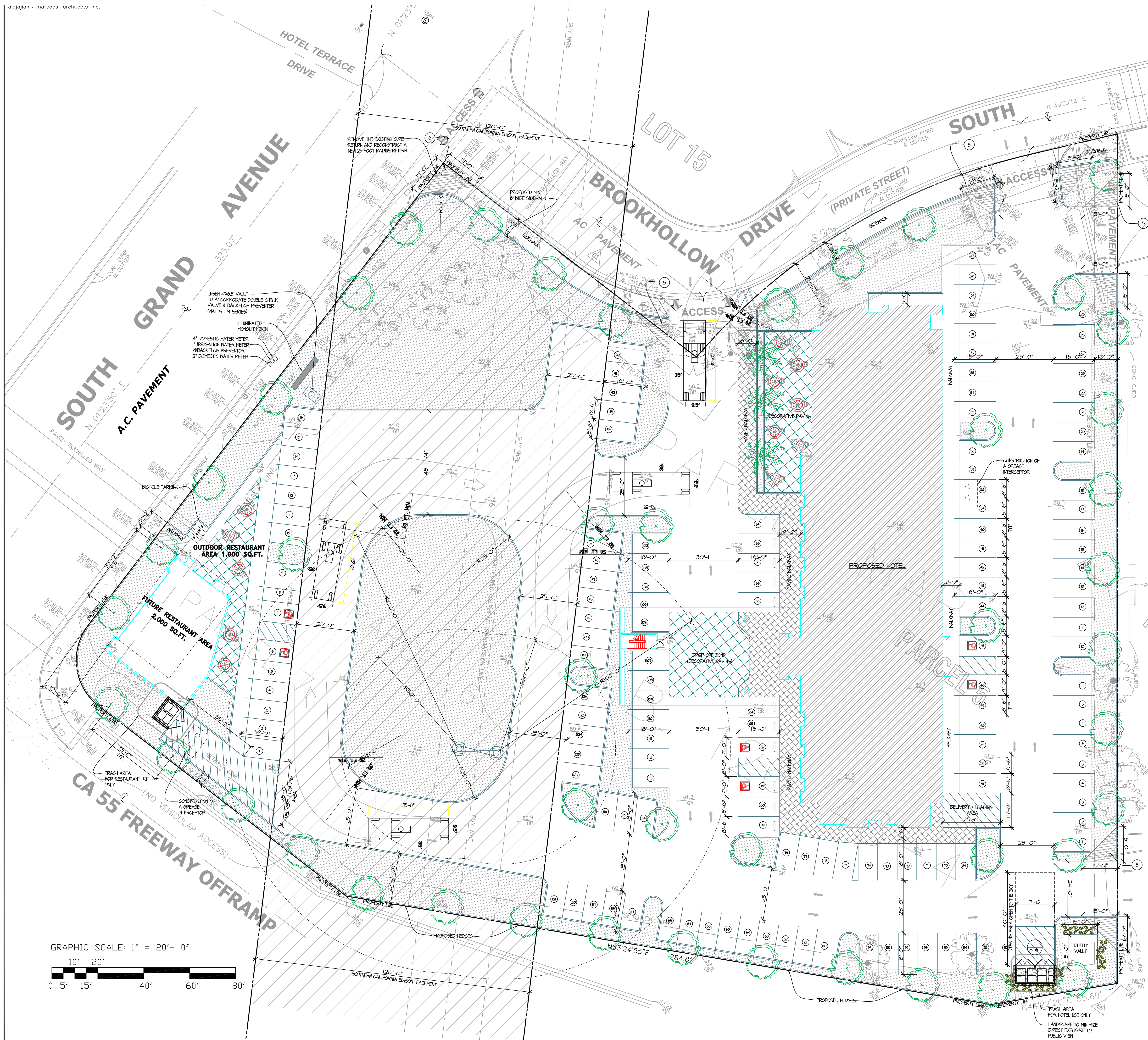
Project Address:
 1580 EAST WARNER AVE.
 SANTA ANA

CODE ANALYSIS

Scale: N/A

- APPROVED
- APPROVED
- REVISION
- REVISION
- REVISION
- DRAWN BY
- PRINT DATE
- JOB NO
- SHEET NO

A-0.2



NOTE:

- INSTALLATION OF 24" BOX STREET TREES AT 35' ON CENTER ON GRAND AVENUE, INCLUDING DEEP ROOT IRRIGATION SYSTEMS, PER CITY STANDARDS.
 - INSTALL 24-INCH BOX STREET TREES PER THE CITY STANDARDS AND APPROVED PLAN, AS NEEDED.
- THE INSTALLATION OF ALL PUBLIC UTILITIES REQUIRED TO SERVICE THE PROJECT SITE (I.E., NEW SEWER LATERAL, WATER LATERALS, AND STORM DRAIN).
- THE PROPOSED PROJECT TO BE SERVED BY INDIVIDUAL PUBLIC WATER METERS FOR EACH AND EVERY SEPARATE COMMERCIAL/RETAIL AREAS, AND FOR THE LANDSCAPE AREA. A PUBLIC METER TO BE PROPERLY SIZED AND TO BE PLACED AT THE PROJECT'S FRONTAGE IN PUBLIC RIGHT-OF-WAY.
- GREASE INTERCEPTOR MUST COMPLY WITH THE CITY'S ORDINANCE NO. NS 26-10.

NOTE: ALL NEW FOOD SERVICE ESTABLISHMENTS SHALL COMPLY WITH THE CITY'S ORDINANCE NO. NS-26-10, FOR FAT, OIL, AND GREASE (FOG) CONTROL PROGRAM, AND ITS SUBSEQUENT REQUIREMENT FOR CONSTRUCTION OF A GRAVITY GREASE INTERCEPTOR. DEVELOPER SHALL CONTACT CITY'S PLANNING AND BUILDING DEPARTMENT TO INCORPORATE DESIGN OF THE REQUIRED GREASE INTERCEPTOR OF ADEQUATE SIZE, INTO THE PROJECT'S PLUMBING PLANS, AND TO DETERMINE AN APPROPRIATE LOCATION FOR IT WITHIN THE PROJECT SITE

- 15' X 15' SIGHT DISTANCE TRIANGLE AREA AT THE VEHICULAR ACCESS LOCATIONS
- NO PROPOSED SIGNS ARE LOCATED WITHIN REQUIRED TRIANGLE VISIBILITY AREAS AT STREET AND/OR DRIVEWAY INTERSECTIONS.
- 17'X17' CORNER CUT-OFF DEDICATION AT THE SOUTHEAST CORNER OF GRAND AVE. AND BROOKHOLLOW DRIVE.
- REPLACEMENT OF THE CURB RAMP AT THE SOUTHWEST CORNERS OF GRAND AVE. AND BROOKHOLLOW Dr. PER CITY OF SANTA ANA STANDARD PLAN #1122.
- THE CONSTRUCTION OF FULL DEPTH ASPHALT CONCERT FOR THE CURB LANE, NORTH BOUND, ALONG THE ENTIRE PROPERTY FRONTAGE.
- GRINDING AND CAPPING MINIMUM OF 2 INCH OF THE EXISTING AC PAVEMENT LEFT TURN LANE, SOUTH BOUND, TO ENTER THE PROJECT SITE.
- ALL TRAFFIC IMPACT ANALYSIS (TIA) RECOMMENDATIONS WILL BE IMPLEMENTED PRIOR TO THE BUILDING PERMIT, SOLELY AT THE DEVELOPER'S EXPENSE.
- A LOT MERGER APPLICATION WILL BE SUBMITTED FOR REVIEW.

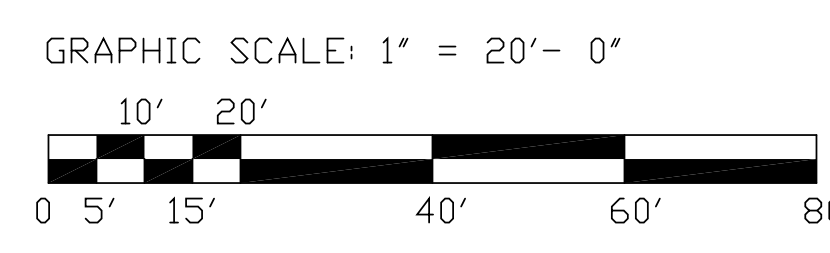
PROPOSED IMPROVEMENTS:
ALL IMPROVEMENT AS SHOWN HEREON TO BE CONSTRUCTED AND INSTALLED AT EXPENSE IN ACCORDANCE WITH THE CITY DESIGN STANDARDS AND SPECIFICATIONS, THE SANTA ANA MUNICIPAL CODE, APPROVED STREET IMPROVEMENT PLANS AND THE REQUIREMENTS OF THE STATE SUBDIVISION MAP ACT.

- ALL TRAFFIC IMPACT ANALYSIS (TIA) RECOMMENDATION(S) WILL BE IMPLEMENTED PRIOR TO THE BUILDING PERMIT, SOLELY AT THE DEVELOPER'S EXPENSE.
- THIS SITE WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGIONAL ORDER NO. 189-2004-0030 DISCHARGE REQUIREMENTS (M64 PERMIT), & CONTACT MINDY LY (714) 647-5665 FOR ADDITIONAL INFORMATION.
- ANY EXISTING SEWER LATERAL(S) SERVING THE PROJECT SITE SHALL BE PROPERLY CAPPED AND ABANDONED AT THE PROPERTY LINE. CONTACT MIR FATAHI, AT (714) 647-5038 FOR ASSISTANCE.

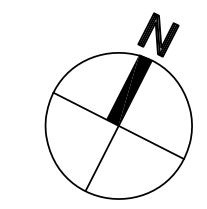
POLICE DEPARTMENT:
ALL STRUCTURES AND PARKING LOTS COMPLY WITH THE PROVISIONS OF CHAPTER 8, ARTICLE 11, DIVISION 3 OF THE SANTA ANA MUNICIPAL CODE (BUILDING SECURITY ORDINANCE). ALL APPLICABLE SECTIONS MUST BE PRINTED VERBATIM ON THE SET OF PLANS.

NOTES FOR EFFICIENT ACCESS OF TRASH VEHICLES TO TRASH RECEPTACLES:

- MINIMUM 40FOOT BY 16 FOOT WIDE STAGING AREA SHALL BE AVAILABLE ON SERVICE DAYS FROM 6 A.M. TO 6 P.M.
- MINIMUM VERTICAL CLEARANCE OF 25 FEET AT THE STAGING AREA FOR BIN SERVICE CLEARANCE.
- MINIMUM 13 FEET VERTICAL CLEARANCE FOR SCOUT TRUCK
- ALL STAGING AREAS TO BE ONSITE. NO STREET STAGING IS PERMITTED
- ALL DRIVEWAY AND STAGING AREAS MUST BE ABLE TO SUSTAIN A MINIMUM GROSS WEIGHT OF 60,000 LBS. PER VEHICLE.
- MAXIMUM SIZE BIN SHALL BE 4 CUBIC YARDS.
- MAXIMUM NUMBER OF PICK-UPS IS 2 TIMES PER WEEK FOR RESIDENTIAL PROJECTS ONLY.
- BACKING UP INTO THE STREET IS NOT ALLOWED FOR SAFETY REASONS.
 - MINIMUM 40' X 16' WIDE STAGING AREA AVAILABLE ON SERVICE DAYS FROM 6AM TO 6PM
 - MINIMUM VERTICAL CLEARANCE OF 25' AT STAGING AREA FOR BIN SERVICE CLEARANCE
 - MINIMUM 12'24" VERTICAL CLEARANCE FOR SCOUT TRUCK (IF APPLICABLE)
 - ELIMINATE ALL BACKING. 3 POINT TURNS MAY BE PERMISSIBLE AT THE DISCRETION OF THE CITY
 - ALL DRIVEWAY AND STAGING AREAS MUST BE ABLE TO CARRY A MINIMUM OF 60,000-POUND GROSS VEHICLE WEIGHT.
 - DEFLECT TRASH TRUCKS TURNING RADIUS ON ALL PROPOSED INTERNAL CORNERS
 - 42' ON A 40-DEGREE TURN RADIUS
 - MINIMUM 11'6" LANE WIDTH FOR TURN RADIUS
 - FOR ROLL OUT SERVICE THE DESIRED PATH OF TRAVEL FOR THE BIN MUST BE LEVEL WITH NO "LIPS" OR MAJOR ELEVATION CHANGES
 - (COMMERCIAL) MINIMUM ONE TIME A WEEK SERVICE ADEQUATE FOR ALL WASTE TO BE CONTAINED WITHIN THE BINS. ADJUSTMENTS TO THE NUMBER OF YARDS REQUIRED FOR SERVICE ARE AT THE DISCRETION OF THE CITY AND WASTE MANAGEMENT
 - ENCLOSURE MUST BE BIG ENOUGH TO HOLD MINIMUM NUMBER OF REQUIRED BINS THAT ARE 7' X 4' X 4' EACH PLUS ENOUGH ROOM TO MANUEVER BIN
 - MAX SIZE BIN 4 CUBIC YARDS.
 - MAX NUMBER OF PICKUP IS 2 TIMES PER WEEK
 - (RESIDENTIAL MULTI FAMILY) 0.5 YARDS OF COMBINED SOLID WASTE AND RECYCLE BIN SERVICE PER WEEK PER RESIDENCE
 - (RESIDENTIAL) EACH HOME WILL BE REQUIRED TO HAVE A MINIMUM OF 1 96GALLON CART FOR EACH COMMODITY; TRASH, RECYCLE, AND GREEN WASTE



1 SITE PLAN
SCALE: 1"=20'-0"



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**Alajajian
Marcoosi
Architects Inc.**
320 W. Arden Ave. Suite 120
Glendale, CA 91203
Phone: (818) 244-5130
Fax: (818) 551-1613
E-mail: aram@amainc.com

Owner:
MODA HOTELS, LLC

Owner Address:
**17510 PIONEER BLVD. #221-A
ARTESIA, CA 90701**

Project Name:
**TAPESTRY BY
HILTON**

Project Address:
**1580 EAST WARNER AVE.
SANTA ANA**

SITE PLAN

Scale: 1"=20'-0"

- APPROVED
- APPROVED
- REVISION
- REVISION
- REVISION
- DRAWN BY
- PRINT DATE
- JOB NO
- SHEET NO

A-11

Tapestry Hotel - South Coast Air Basin, Annual

Tapestry Hotel
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	142.00	Space	1.28	56,800.00	0
High Turnover (Sit Down Restaurant)	2.00	1000sqft	0.05	2,000.00	0
Hotel	139.00	Room	1.82	79,375.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	353.87	CH4 Intensity (lb/MW hr)	0.015	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Tapestry Hotel - South Coast Air Basin, Annual

Project Characteristics - SCE 2030 Energy Intensity Factors

Land Use - Square footage specified on plans.

Construction Phase - COstruction schedule specified by architect. Assuming an architectural Coating phase.

Trips and VMT - Haul truck capacities specified by architect.

Grading -

Vehicle Trips - Per Traffic Study (JBA 2020).

Energy Use -

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403.

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Tapestry Hotel - South Coast Air Basin, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	230.00	301.00
tblConstructionPhase	NumDays	8.00	42.00
tblConstructionPhase	NumDays	18.00	12.00
tblConstructionPhase	NumDays	5.00	45.00
tblGrading	MaterialExported	0.00	5,928.00
tblLandUse	LandUseSquareFeet	201,828.00	79,375.00
tblLandUse	LotAcreage	4.63	1.82
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	HaulingTripNumber	741.00	371.00
tblVehicleTrips	WD_TR	127.15	112.18
tblVehicleTrips	WD_TR	8.17	4.02

2.0 Emissions Summary

Tapestry Hotel - South Coast Air Basin, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0478	0.4885	0.2553	4.6000e-004	0.2100	0.0253	0.2353	0.1148	0.0233	0.1381	0.0000	40.4917	40.4917	0.0125	0.0000	40.8041
2021	0.3119	2.9712	2.4823	5.0600e-003	0.4224	0.1424	0.5648	0.2031	0.1329	0.3361	0.0000	448.1450	448.1450	0.0908	0.0000	450.4148
2022	0.4996	1.0041	1.0772	2.1800e-003	0.0434	0.0464	0.0898	0.0117	0.0436	0.0553	0.0000	192.0580	192.0580	0.0347	0.0000	192.9256
Maximum	0.4996	2.9712	2.4823	5.0600e-003	0.4224	0.1424	0.5648	0.2031	0.1329	0.3361	0.0000	448.1450	448.1450	0.0908	0.0000	450.4148

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0478	0.4885	0.2553	4.6000e-004	0.0958	0.0253	0.1211	0.0520	0.0233	0.0753	0.0000	40.4917	40.4917	0.0125	0.0000	40.8040
2021	0.3119	2.9712	2.4823	5.0600e-003	0.2373	0.1424	0.3797	0.1041	0.1329	0.2371	0.0000	448.1446	448.1446	0.0908	0.0000	450.4144
2022	0.4996	1.0041	1.0772	2.1800e-003	0.0434	0.0464	0.0898	0.0117	0.0436	0.0553	0.0000	192.0578	192.0578	0.0347	0.0000	192.9254
Maximum	0.4996	2.9712	2.4823	5.0600e-003	0.2373	0.1424	0.3797	0.1041	0.1329	0.2371	0.0000	448.1446	448.1446	0.0908	0.0000	450.4144

Tapestry Hotel - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.31	0.00	33.65	49.09	0.00	30.56	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2020	2-28-2021	1.3100	1.3100
2	3-1-2021	5-31-2021	0.8062	0.8062
3	6-1-2021	8-31-2021	0.7229	0.7229
4	9-1-2021	11-30-2021	0.7159	0.7159
5	12-1-2021	2-28-2022	0.6629	0.6629
6	3-1-2022	5-31-2022	0.6170	0.6170
7	6-1-2022	8-31-2022	0.4555	0.4555
		Highest	1.3100	1.3100

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003
Energy	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	532.9206	532.9206	0.0160	7.3100e-003	535.4995
Mobile	0.2241	1.1507	2.5445	9.0200e-003	0.7421	7.3500e-003	0.7494	0.1988	6.8500e-003	0.2057	0.0000	833.9432	833.9432	0.0425	0.0000	835.0067
Waste						0.0000	0.0000		0.0000	0.0000	20.2788	0.0000	20.2788	1.1984	0.0000	50.2399
Water						0.0000	0.0000		0.0000	0.0000	1.3112	9.4060	10.7172	0.1351	3.2600e-003	15.0655
Total	0.5893	1.4111	2.7668	0.0106	0.7421	0.0271	0.7692	0.1988	0.0266	0.2255	21.5900	1,376.2768	1,397.8668	1.3921	0.0106	1,435.8189

Tapestry Hotel - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003
Energy	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	500.0909	500.0909	0.0152	6.7900e-003	502.4950
Mobile	0.2241	1.1507	2.5445	9.0200e-003	0.7421	7.3500e-003	0.7494	0.1988	6.8500e-003	0.2057	0.0000	833.9432	833.9432	0.0425	0.0000	835.0067
Waste						0.0000	0.0000		0.0000	0.0000	20.2788	0.0000	20.2788	1.1984	0.0000	50.2399
Water						0.0000	0.0000		0.0000	0.0000	1.0490	7.6783	8.7273	0.1081	2.6100e-003	12.2065
Total	0.5869	1.3888	2.7482	0.0105	0.7421	0.0255	0.7675	0.1988	0.0250	0.2238	21.3278	1,341.7194	1,363.0472	1.3643	9.4000e-003	1,399.9554

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.41	1.57	0.67	1.23	0.00	6.23	0.22	0.00	6.34	0.75	1.21	2.51	2.49	2.00	11.07	2.50

3.0 Construction Detail

Construction Phase

Tapestry Hotel - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/1/2020	2/1/2021	5	45	
2	Grading	Grading	2/2/2021	3/31/2021	5	42	
3	Building Construction	Building Construction	4/1/2021	5/26/2022	5	301	
4	Architectural Coating	Architectural Coating	6/1/2022	6/30/2022	5	22	
5	Paving	Paving	6/15/2022	6/30/2022	5	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 21

Acres of Paving: 1.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 122,063; Non-Residential Outdoor: 40,688; Striped Parking Area: 3,408 (Architectural Coating – sqft)

OffRoad Equipment

Tapestry Hotel - South Coast Air Basin, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	371.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	58.00	23.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2078	0.0000	0.2078	0.1142	0.0000	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4453	38.4453	0.0124	0.0000	38.7561
Total	0.0469	0.4878	0.2474	4.4000e-004	0.2078	0.0253	0.2330	0.1142	0.0233	0.1375	0.0000	38.4453	38.4453	0.0124	0.0000	38.7561

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3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	7.1000e-004	7.8500e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0465	2.0465	6.0000e-005	0.0000	2.0479
Total	9.2000e-004	7.1000e-004	7.8500e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0465	2.0465	6.0000e-005	0.0000	2.0479

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0935	0.0000	0.0935	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0469	0.4878	0.2474	4.4000e-004		0.0253	0.0253		0.0233	0.0233	0.0000	38.4452	38.4452	0.0124	0.0000	38.7561
Total	0.0469	0.4878	0.2474	4.4000e-004	0.0935	0.0253	0.1188	0.0514	0.0233	0.0746	0.0000	38.4452	38.4452	0.0124	0.0000	38.7561

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3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2000e-004	7.1000e-004	7.8500e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0465	2.0465	6.0000e-005	0.0000	2.0479
Total	9.2000e-004	7.1000e-004	7.8500e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0465	2.0465	6.0000e-005	0.0000	2.0479

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7793	36.7793	0.0119	0.0000	37.0767
Total	0.0428	0.4455	0.2327	4.2000e-004	0.1987	0.0225	0.2212	0.1092	0.0207	0.1299	0.0000	36.7793	36.7793	0.0119	0.0000	37.0767

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	6.1000e-004	6.9100e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	1.8942	1.8942	5.0000e-005	0.0000	1.8955
Total	8.2000e-004	6.1000e-004	6.9100e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	1.8942	1.8942	5.0000e-005	0.0000	1.8955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0894	0.0000	0.0894	0.0492	0.0000	0.0492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0428	0.4455	0.2327	4.2000e-004		0.0225	0.0225		0.0207	0.0207	0.0000	36.7792	36.7792	0.0119	0.0000	37.0766
Total	0.0428	0.4455	0.2327	4.2000e-004	0.0894	0.0225	0.1119	0.0492	0.0207	0.0699	0.0000	36.7792	36.7792	0.0119	0.0000	37.0766

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	6.1000e-004	6.9100e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	1.8942	1.8942	5.0000e-005	0.0000	1.8955
Total	8.2000e-004	6.1000e-004	6.9100e-003	2.0000e-005	2.1700e-003	2.0000e-005	2.1900e-003	5.8000e-004	2.0000e-005	5.9000e-004	0.0000	1.8942	1.8942	5.0000e-005	0.0000	1.8955

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1379	0.0000	0.1379	0.0708	0.0000	0.0708	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0481	0.5195	0.3330	6.2000e-004		0.0244	0.0244		0.0224	0.0224	0.0000	54.7128	54.7128	0.0177	0.0000	55.1551
Total	0.0481	0.5195	0.3330	6.2000e-004	0.1379	0.0244	0.1623	0.0708	0.0224	0.0932	0.0000	54.7128	54.7128	0.0177	0.0000	55.1551

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4300e-003	0.0496	0.0109	1.4000e-004	3.1900e-003	1.5000e-004	3.3400e-003	8.8000e-004	1.4000e-004	1.0200e-003	0.0000	13.9213	13.9213	1.0000e-003	0.0000	13.9464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	9.7000e-004	0.0110	3.0000e-005	3.4600e-003	3.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	3.0135	3.0135	8.0000e-005	0.0000	3.0155
Total	2.7400e-003	0.0506	0.0219	1.7000e-004	6.6500e-003	1.8000e-004	6.8200e-003	1.8000e-003	1.6000e-004	1.9600e-003	0.0000	16.9347	16.9347	1.0800e-003	0.0000	16.9619

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0621	0.0000	0.0621	0.0319	0.0000	0.0319	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0481	0.5195	0.3330	6.2000e-004		0.0244	0.0244		0.0224	0.0224	0.0000	54.7127	54.7127	0.0177	0.0000	55.1551
Total	0.0481	0.5195	0.3330	6.2000e-004	0.0621	0.0244	0.0864	0.0319	0.0224	0.0543	0.0000	54.7127	54.7127	0.0177	0.0000	55.1551

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4300e-003	0.0496	0.0109	1.4000e-004	3.1900e-003	1.5000e-004	3.3400e-003	8.8000e-004	1.4000e-004	1.0200e-003	0.0000	13.9213	13.9213	1.0000e-003	0.0000	13.9464
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	9.7000e-004	0.0110	3.0000e-005	3.4600e-003	3.0000e-005	3.4800e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	3.0135	3.0135	8.0000e-005	0.0000	3.0155
Total	2.7400e-003	0.0506	0.0219	1.7000e-004	6.6500e-003	1.8000e-004	6.8200e-003	1.8000e-003	1.6000e-004	1.9600e-003	0.0000	16.9347	16.9347	1.0800e-003	0.0000	16.9619

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1872	1.7171	1.6327	2.6500e-003		0.0944	0.0944		0.0888	0.0888	0.0000	228.1627	228.1627	0.0551	0.0000	229.5389
Total	0.1872	1.7171	1.6327	2.6500e-003		0.0944	0.0944		0.0888	0.0888	0.0000	228.1627	228.1627	0.0551	0.0000	229.5389

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5100e-003	0.2204	0.0557	5.7000e-004	0.0143	4.5000e-004	0.0147	4.1200e-003	4.3000e-004	4.5500e-003	0.0000	55.0078	55.0078	3.5500e-003	0.0000	55.0965
Worker	0.0237	0.0176	0.1994	6.0000e-004	0.0627	4.7000e-004	0.0632	0.0167	4.4000e-004	0.0171	0.0000	54.6535	54.6535	1.4700e-003	0.0000	54.6903
Total	0.0303	0.2380	0.2551	1.1700e-003	0.0770	9.2000e-004	0.0779	0.0208	8.7000e-004	0.0216	0.0000	109.6614	109.6614	5.0200e-003	0.0000	109.7868

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1872	1.7171	1.6327	2.6500e-003		0.0944	0.0944		0.0888	0.0888	0.0000	228.1625	228.1625	0.0551	0.0000	229.5386
Total	0.1872	1.7171	1.6327	2.6500e-003		0.0944	0.0944		0.0888	0.0888	0.0000	228.1625	228.1625	0.0551	0.0000	229.5386

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5100e-003	0.2204	0.0557	5.7000e-004	0.0143	4.5000e-004	0.0147	4.1200e-003	4.3000e-004	4.5500e-003	0.0000	55.0078	55.0078	3.5500e-003	0.0000	55.0965
Worker	0.0237	0.0176	0.1994	6.0000e-004	0.0627	4.7000e-004	0.0632	0.0167	4.4000e-004	0.0171	0.0000	54.6535	54.6535	1.4700e-003	0.0000	54.6903
Total	0.0303	0.2380	0.2551	1.1700e-003	0.0770	9.2000e-004	0.0779	0.0208	8.7000e-004	0.0216	0.0000	109.6614	109.6614	5.0200e-003	0.0000	109.7868

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4971	120.4971	0.0289	0.0000	121.2188
Total	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4971	120.4971	0.0289	0.0000	121.2188

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.1104	0.0278	3.0000e-004	7.5400e-003	2.1000e-004	7.7400e-003	2.1700e-003	2.0000e-004	2.3700e-003	0.0000	28.7831	28.7831	1.8100e-003	0.0000	28.8283
Worker	0.0118	8.4000e-003	0.0972	3.1000e-004	0.0331	2.4000e-004	0.0333	8.7900e-003	2.2000e-004	9.0100e-003	0.0000	27.8192	27.8192	7.0000e-004	0.0000	27.8367
Total	0.0150	0.1188	0.1250	6.1000e-004	0.0406	4.5000e-004	0.0411	0.0110	4.2000e-004	0.0114	0.0000	56.6023	56.6023	2.5100e-003	0.0000	56.6650

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4970	120.4970	0.0289	0.0000	121.2187
Total	0.0887	0.8120	0.8509	1.4000e-003		0.0421	0.0421		0.0396	0.0396	0.0000	120.4970	120.4970	0.0289	0.0000	121.2187

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2300e-003	0.1104	0.0278	3.0000e-004	7.5400e-003	2.1000e-004	7.7400e-003	2.1700e-003	2.0000e-004	2.3700e-003	0.0000	28.7831	28.7831	1.8100e-003	0.0000	28.8283
Worker	0.0118	8.4000e-003	0.0972	3.1000e-004	0.0331	2.4000e-004	0.0333	8.7900e-003	2.2000e-004	9.0100e-003	0.0000	27.8192	27.8192	7.0000e-004	0.0000	27.8367
Total	0.0150	0.1188	0.1250	6.1000e-004	0.0406	4.5000e-004	0.0411	0.0110	4.2000e-004	0.0114	0.0000	56.6023	56.6023	2.5100e-003	0.0000	56.6650

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
Total	0.3873	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132

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3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.7000e-004	4.2500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2176	1.2176	3.0000e-005	0.0000	1.2183
Total	5.2000e-004	3.7000e-004	4.2500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2176	1.2176	3.0000e-005	0.0000	1.2183

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
Total	0.3873	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132

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3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.7000e-004	4.2500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2176	1.2176	3.0000e-005	0.0000	1.2183
Total	5.2000e-004	3.7000e-004	4.2500e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2176	1.2176	3.0000e-005	0.0000	1.2183

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8600e-003	0.0571	0.0732	1.1000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	9.8255	9.8255	3.0900e-003	0.0000	9.9027
Paving	1.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.5400e-003	0.0571	0.0732	1.1000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	9.8255	9.8255	3.0900e-003	0.0000	9.9027

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.3000e-004	3.8700e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	3.0000e-005	0.0000	1.1076
Total	4.7000e-004	3.3000e-004	3.8700e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	3.0000e-005	0.0000	1.1076

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8600e-003	0.0571	0.0732	1.1000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	9.8255	9.8255	3.0900e-003	0.0000	9.9027
Paving	1.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.5400e-003	0.0571	0.0732	1.1000e-004		2.9300e-003	2.9300e-003		2.7000e-003	2.7000e-003	0.0000	9.8255	9.8255	3.0900e-003	0.0000	9.9027

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.3000e-004	3.8700e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	3.0000e-005	0.0000	1.1076
Total	4.7000e-004	3.3000e-004	3.8700e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1069	1.1069	3.0000e-005	0.0000	1.1076

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2241	1.1507	2.5445	9.0200e-003	0.7421	7.3500e-003	0.7494	0.1988	6.8500e-003	0.2057	0.0000	833.9432	833.9432	0.0425	0.0000	835.0067
Unmitigated	0.2241	1.1507	2.5445	9.0200e-003	0.7421	7.3500e-003	0.7494	0.1988	6.8500e-003	0.2057	0.0000	833.9432	833.9432	0.0425	0.0000	835.0067

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	224.36	316.74	263.68	331,405	331,405
Hotel	558.78	1,138.41	827.05	1,622,378	1,622,378
Parking Lot	0.00	0.00	0.00		
Total	783.14	1,455.15	1,090.73	1,953,784	1,953,784

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turnover (Sit Down Restaurant)	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Hotel	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	240.9089	240.9089	0.0102	2.0400e-003	241.7728
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	249.5496	249.5496	0.0106	2.1200e-003	250.4445
NaturalGas Mitigated	0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	259.1820	259.1820	4.9700e-003	4.7500e-003	260.7222
NaturalGas Unmitigated	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.3711	283.3711	5.4300e-003	5.2000e-003	285.0550

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High Turnover (Sit Down Restaurant)	546880	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.1836	29.1836	5.6000e-004	5.4000e-004	29.3570
Hotel	4.76329e+006	0.0257	0.2335	0.1961	1.4000e-003		0.0178	0.0178		0.0178	0.0178	0.0000	254.1875	254.1875	4.8700e-003	4.6600e-003	255.6980
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.3711	283.3711	5.4300e-003	5.2000e-003	285.0550

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High Turnover (Sit Down Restaurant)	531346	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3547	28.3547	5.4000e-004	5.2000e-004	28.5231
Hotel	4.32554e+006	0.0233	0.2120	0.1781	1.2700e-003		0.0161	0.0161		0.0161	0.0161	0.0000	230.8273	230.8273	4.4200e-003	4.2300e-003	232.1990
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0262	0.2381	0.2000	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	259.1820	259.1820	4.9600e-003	4.7500e-003	260.7222

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	94960	15.2423	6.5000e-004	1.3000e-004	15.2970
Hotel	1.43986e+006	231.1163	9.8000e-003	1.9600e-003	231.9451
Parking Lot	19880	3.1910	1.4000e-004	3.0000e-005	3.2024
Total		249.5495	0.0106	2.1200e-003	250.4445

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	92484	14.8449	6.3000e-004	1.3000e-004	14.8981
Hotel	1.38851e+006	222.8730	9.4500e-003	1.8900e-003	223.6723
Parking Lot	19880	3.1910	1.4000e-004	3.0000e-005	3.2024
Total		240.9089	0.0102	2.0500e-003	241.7728

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003
Unmitigated	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003
Total	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0385					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.4000e-004	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003
Total	0.3366	3.0000e-005	3.6200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.0200e-003	7.0200e-003	2.0000e-005	0.0000	7.4900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.7273	0.1081	2.6100e-003	12.2065
Unmitigated	10.7172	0.1351	3.2600e-003	15.0655

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	0.607067 / 0.038749	1.5305	0.0198	4.8000e-004	2.1690
Hotel	3.52598 / 0.391776	9.1867	0.1152	2.7800e-003	12.8964
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.7172	0.1351	3.2600e-003	15.0655

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	0.485654 / 0.038749	1.2382	0.0159	3.8000e-004	1.7491
Hotel	2.82078 / 0.391776	7.4891	0.0922	2.2300e-003	10.4574
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.7273	0.1081	2.6100e-003	12.2065

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.2788	1.1984	0.0000	50.2399
Unmitigated	20.2788	1.1984	0.0000	50.2399

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	23.8	4.8312	0.2855	0.0000	11.9691
Hotel	76.1	15.4476	0.9129	0.0000	38.2708
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		20.2788	1.1984	0.0000	50.2399

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	23.8	4.8312	0.2855	0.0000	11.9691
Hotel	76.1	15.4476	0.9129	0.0000	38.2708
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		20.2788	1.1984	0.0000	50.2399

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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Tapestry Hotel - South Coast Air Basin, Annual

11.0 Vegetation

Tapestry Hotel

Last Updated: 5/5/2020

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors [1]:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529
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Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT						
Construction Equipment	#	Hours per		Load Factor	Construction Phase	Fuel Used (gallons)
		Day	Horsepower			
Rubber Tired Dozers	3	8	247	0.4	Site Prep	5,640.27
Tractors/Loaders/Backhoes	4	8	97	0.37	Site Prep	3,037.03
Excavators	1	8	158	0.38	Grading	1,142.52
Graders	1	8	187	0.41	Grading	1,458.97
Rubber Tired Dozers	1	8	247	0.4	Grading	1,880.09
Tractors/Loaders/Backhoes	3	8	97	0.37	Grading	2,277.77
Cranes	1	7	231	0.29	Building	1,115.42
Forklifts	3	8	89	0.2	Building	1,129.68
Generator Sets	1	8	84	0.74	Building	1,315.00
Tractors/Loaders/Backhoes	3	7	97	0.37	Building	1,993.05
Welders	1	8	46	0.45	Building	437.91
Air Compressors	1	6	78	0.48	Arch Coating	594.04
Cement and Mortar Mixers	2	6	9	0.56	Paving	159.93
Pavers	1	8	130	0.42	Paving	1,039.00
Paving Equipment	2	6	132	0.36	Paving	1,356.40
Rollers	2	6	80	0.38	Paving	964.67
Tractors/Loaders/Backhoes	1	8	97	0.37	Paving	759.26
Total Fuel Used						26,301.01
						(Gallons)

Construction Phase	Days of Operation
Demolition Phase	0
Site Preparation Phase	45
Grading Phase	42
Building Construction Phase	301
Paving Phase	12
Architectural Coating Phase	22
Total Days	422

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition	24.0	0	14.7	0.00
Site Prep Phase	24.0	18	14.7	496.13
Grading Phase	24.0	15	14.7	385.88

Building Phase	24.0	58	14.7	10693.03
Paving Phase	24.0	20	14.7	147.00
Architectural Coating Phase	24.0	12	14.7	161.70
			Fuel	11,883.73

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				
Demolition	7.4	0	14.7	0.00
Site Prep Phase	7.4	0	14.7	0.00
Grading Phase	7.4	371	14.7	736.99
Building Phase	7.4	0	14.7	0.00
Paving Phase	7.4	0	14.7	0.00
Architectural Coating Phase	7.4	0	14.7	0.00
			Fuel	736.99

VENDOR TRIPS				
Demolition	7.4	0	14.7	0.00
Site Prep Phase	7.4	0	14.7	0.00
Grading Phase	7.4	0	14.7	0.00
Building Phase	7.4	23	14.7	13752.45
Paving Phase	7.4	0	14.7	0.00
Architectural Coating Phase	7.4	0	14.7	0.00
			Fuel	13,752.45

Total Gasoline Consumption (gallons)	11,883.73
Total Diesel Consumption (gallons)	40,790.44

Sources:

[1] United States Environmental Protection Agency. 2018. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b*. July 2018. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P100UXEN.pdf>.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2018. *National Transportation Statistics 2018*. Available at: <https://www.bts.gov/sites/bts.dot.gov/files/docs/browse-statistical-products-and-data/national-transportation-statistics/223001/ntsntire2018q4.pdf>.

Project Name

Last Updated: _____

Populate one of the following tables (Leave the other blank):

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 1,953,784		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.552111	LDA	31.55
Light Duty Truck 1 (LDT1)	0.043066	LDT1	26.46
Light Duty Truck 2 (LDT2)	0.201891	LDT2	23.84
Medium Duty Vehicle (MDV)	0.118512	MDV	17.05
Light Heavy Duty 1 (LHD1)	0.015605	LHD1	20.45
Light Heavy Duty 2 (LHD2)	0.005863	LHD2	19.12
Medium Heavy Duty (MHD)	0.021387	T6 Public	9.03
Heavy Heavy Duty (HHD)	0.031253	T7 Public	5.29
Other Bus (OBUS)	0.002087	OBUS	8.26
Urban Bus (UBUS)	0.001818	UBUS	5.17
School Bus (SBUS)	0.004803	SBUS	7.25
Motorhome (MH)	0.000708	MH	10.72
Motorcycle (MCY)	0.000896	MCY	38.05

Fleet Mix					
Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Light Duty Auto (LDA)		<i>Gasoline</i>	1,078,705.64		34185.61978
Light Duty Truck 1 (LDT1)		<i>Gasoline</i>	84,141.66		3179.547488
Light Duty Truck 2 (LDT2)		<i>Gasoline</i>	394,451.41		16548.16513
Medium Duty Vehicle (MDV)		<i>Gasoline</i>	231,546.85		13578.83694
Light Heavy Duty 1 (LHD1)		<i>Diesel</i>	30,488.80		1491.178038
Light Heavy Duty 2 (LHD2)		<i>Diesel</i>	11,455.04		599.0928332
Medium Heavy Duty (MHD)		<i>Diesel</i>	41,785.58		4627.561264
Heavy Heavy Duty (HHD)		<i>Diesel</i>	61,061.61		11536.58722
Other Bus (OBUS)		<i>Diesel</i>	4,077.55		493.7960098
Urban Bus (UBUS)		<i>Diesel</i>	3,551.98		686.5238397
School Bus (SBUS)		<i>Diesel</i>	9,384.02		1293.856713
Motorhome (MH)		<i>Diesel</i>	1,383.28		129.0841181
Motorcycle (MCY)		<i>Gasoline</i>	1,750.59		46.01059877

Total Gasoline Consumption (gallons)	67,538.18
Total Diesel Consumption (gallons)	20,857.68

Sources:

[1] California Air Resources Board (CARB). 2015. "EMFAC2014 Web Database." December 14, 2015. <https://www.arb.ca.gov/emfac/2014/> (accessed March 15, 2019).