APPENDIX P Utilities Documentation

P-1 Utility Infrastructure Technical Report



HOLLYWOOD CENTER

UTILITY INFRASTRUCTURE TECHNICAL REPORT: WATER, WASTEWATER AND ENERGY APRIL 1, 2020

PREPARED BY:

KPFF Consulting Engineers 700 South Flower St., Suite 2100 Los Angeles, CA 90017 213-418-0201

Table of Contents

1.	IN	FRODUCTION	1
	1.1.	Project Description	1
	1.2.	Scope of Work	2
2.	EX	ISTING CONDITION	2
	2.1.	Water	2
	2.2.	Wastewater	3
	2.3.	Energy	5
		OJECT	
	3.1	Construction	6
	3.1.1.	Water	6
	3.1.2.	Wastewater	7
	3.2.	Operation	7
	3.2.2.	Wastewater	. 12
	3.2.3	Energy	. 14
4.		NCLUSION	

Appendix

- Exhibit 1- Existing Water and Wastewater Infrastructure Exhibit
- Exhibit 2- LADWP "Information of Fire Flow Availability Request" Results
- Exhibit 3- LADWP Water "Service Advisory Request" Results
- Exhibit 4- City of Los Angeles "Sewer Capacity Availability Request" Results and Will Serve Letter
- Exhibit 5- Power Will Serve Letter
- Exhibit 6- Natural Gas Will Serve Letter
- Exhibit 7- Preliminary Annual Energy Demand Analysis by Glumac dated August 27, 2017

Reference

LADWP Water Supply Assessment (WSA) dated December 11, 2018

1. INTRODUCTION

1.1. PROJECT DESCRIPTION

MCAF Vine LLC, 1750 North Vine LLC, 1749 North Vine Street LLC, 1770 Ivar LLC, 1733 North Argyle LLC, and 1720 North Vine LLC (collectively, the Applicant) proposes a new mixed-use development (Project) on an approximately 4.46-acre (194,495 square feet) site (Project Site) in the Hollywood Community Plan Area of the City of Los Angeles (City). The Project Site is bounded by Yucca Street on the north, Ivar Avenue on the west, Argyle Avenue on the east, and Hollywood Boulevard on the south, and is bifurcated by Vine Street. The portion of the Project located between Ivar Avenue and Vine Street is identified as the "West Site," and the portion located between Vine Street and Argyle Avenue is identified as the "East Site." The Project Site includes 10 individual parcels, and is currently occupied by a building leased by American Musical and Dramatic Academy (AMDA) and surface parking lot on the West Site, and the Capitol Records Building and Gogerty Building occupied by Capitol Records (the Capitol Records Complex) and a surface parking lot that serves the Capitol Records Complex and general public parking on the East Site.

The Capitol Records Complex would be preserved, although portions of its supporting parking area, along with some existing parking not adjacent to the Capitol Records Complex, would be reconfigured and relocated to the East Site five-floor subterranean and grade-level parking garage. The remaining surface parking uses on the Project Site would be removed in order to develop a mix of land uses, including residential uses (market-rate and senior affordable housing units), commercial uses, parking, and associated landscape and open space amenities. Four new buildings are proposed, including a 35-story building on the West Site (West Building), a 46-story building on the East Site (East Building), and two 11-story senior housing buildings (West Senior Building and East Senior Building) set aside for extremely-low and very-low income households (one senior housing building on each site). The Project would develop approximately 1,287,150 square feet of developed floor area, including 1,005 residential housing units (872 market-rate units and 133 senior affordable housing units) totaling approximately 1,256,974 square feet of residential floor area, approximately 30,176 square feet of commercial floor area (retail and restaurant uses), approximately 160,707 square feet of open space and amenities, approximately 1,521 vehicle parking spaces, and approximately 551 bicycle parking spaces. The Project would have a floor-area ratio (FAR) of 6.975:1 which includes the existing 114,303 squarefoot Capitol Records Complex (consisting of the 92,664 square-foot Capitol Records Building and 21,639 square-foot Gogerty Building). The total buildable area for the Project Site would be 1,401,453 square feet.

Under a proposed Hotel Option associated with the East Site, the Project would replace 104 residential units within East Building levels 3 through 12 with a 220-room hotel, with no change to building heights and massing. The number of affordable residential units within the East Senior Building would be reduced by 17 units and the height of the building would be reduced from 11 stories to 9 stories. Overall, under the East Site Hotel Option there would be approximately 1,272,741 square feet of developed floor area, including 884 residential housing units (768 market-rate units and 116 senior affordable housing units)

totaling approximately 1,112,287 square feet of residential floor area, a 220-room hotel with approximately 130,278 square feet of floor area, approximately 30,176 square feet of other commercial floor area, approximately 147,366 square feet of open space and amenities, 1,521 vehicle parking spaces, and 554 bicycle parking spaces. The East Site Hotel Option would have a FAR of 6.903:1 which includes the existing Capitol Records Complex, for a total buildable area for the Project Site would be 1,387,044 square feet.

Assuming the two sites are built one after another, construction of the Project would be completed over an approximately six-year period. Activities would be phased, beginning on the West Site as early as 2021 and on the East Site in approximately 2024. Construction timing could vary for both sites and could potentially overlap on the West and East Sites, and the Environmental Impact Report (EIR) will analyze the most conservative construction schedule. Project construction would require grading and excavation activities down to a maximum depth of 82 feet below existing grade for building foundations and five levels of subterranean parking. The Project would export approximately 542,300 cubic yards of soil and generate approximately 1,616 cubic yards of demolition debris (asphalt, interior and exterior building demolition, and general demolition debris). No import of soil is proposed.

1.2. SCOPE OF WORK

As a part of the EIR for the Project, the purpose of this report is to analyze the potential impact of the Project to the existing water, wastewater, and energy infrastructure system.

2. EXISTING CONDITION

The majority of the site is currently surface parking. While there is an existing 1,237 square-foot storage building on the Project Site that would be demolished, it is currently leased by AMDA as a work space, and there is minimal regular water use. Additionally, the 114,303 square-foot Capitol Records Complex would not be affected by the Project. Therefore, for conservative purposes, it is assumed that there are no existing water demand, sewer flows, and energy demand on the portions of the Project Site that would be demolished for the Project. All new water demand, sewer flows, and energy demand associated with the Project would be an increase.

2.1. WATER

EXISTING WATER INFRASTRUCTURE

The Los Angeles Department of Water and Power (LADWP) maintains water infrastructure to the Project Site. The following information is based on water service maps provided by LADWP:

• Yucca Street: There is a northerly 12-inch water line in Yucca Street between Argyle Avenue and Vine Street. There are two water lines between Vine Street and Ivar Street; the northerly water line is 8-inches and the southerly water line is 24-inches.

- **Ivar Avenue:** There is a westerly 16-inch water line in Ivar Avenue between Yucca Street and Hollywood Boulevard.
- **Vine Street:** There is a westerly 24-inch water line in Vine Street between Yucca Street and Hollywood Boulevard.
- **Argyle Avenue:** There is a westerly 8-inch water line in Argyle Avenue between Yucca Street and Hollywood Boulevard.

EXISTING FIRE INFRASTRUCTURE

Based on information provided on the City's NavigateLA website, there are several existing fire hydrants in the immediate vicinity of the Project Site. The locations of the fire hydrants are described below:

- Yucca Street: There are four existing fire hydrants located along Yucca Street: one at the intersection of Yucca Street and Ivar Avenue, two at the intersection of Yucca Street and Vine Street, and one at the intersection of Yucca Street and Argyle Ave.
- **Ivar Avenue:** There is a fire hydrant located approximately 410 feet south of Yucca Street.
- **Vine Street:** Two fire hydrants are located along Vine Street approximately 315 and 390 feet south of Yucca Street.
- **Argyle Avenue:** There is a fire hydrant located approximately 375 feet south of Yucca Street.

2.2. WASTEWATER

The Project Site is located within the Hyperion Sewer System Service Area, which is operated and maintained by the City's Bureau of Sanitation (LASAN). The existing design capacity of the Hyperion Sewer System Service Area is approximately 550 million gallons per day (mgd), consisting of 450 mgd at the Hyperion Treatment Plant, 80 mgd at the Donald C. Tillman Water Reclamation Plant, and 20 mgd at the Los Angeles–Glendale Water Reclamation Plant. The sewerage generated at the Site will be treated within the Hyperion Sewer System Service Area.

City of Los Angeles Department of Public Works, Bureau of Sanitation, Water Reclamation Plants, https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-cw/s-lsh-wwd-cw-p?_adf.ctrl-state=oep8lwkld_4&_afrLoop=28344654751341747#, accessed August 6, 2018.

The following sewer mains are located within the vicinity of the Project Site (see Exhibit 1):

- Yucca Street: There is a 12-inch VCP sewer line between Ivar Avenue and Argyle Avenue that flows westward. There is an 8-inch VCP sewer line between Vine Street and Argyle Avenue that flows westward².
- **Ivar Avenue:** There are two sewer lines in Ivar Avenue between Yucca Street and Hollywood Boulevard.
 - The easterly line is an 8-inch VCP sewer line between Yucca Street and Hollywood Boulevard that flows southward.
 - The westerly line is a 12-inch VCP sewer line between Yucca Street and Hollywood Boulevard that flows southward.
- **Vine Street:** There is an 8-inch vitrified clay pipe (VCP) sewer line in Vine Street between Yucca Street and Hollywood Boulevard that flows southward.
- **Argyle Avenue:** There are two sewer lines in Argyle Avenue between Yucca Street and Hollywood Boulevard.
 - o The westerly line is an 8-inch VCP sewer line with a terminal point located south of Yucca Street which flows south towards Hollywood Boulevard.
 - o The easterly line is an 8-inch VCP sewer line which collects flow from the sewer line in Carlos Avenue to the east. The line flows south to connect to the westerly 8-inch VCP line at manhole ID number 46914202.

Per capacity information provided on the City's NavigateLA website:

- Yucca Street: The capacity of the 12-inch VCP sewer line is:
 - o 2.092 cfs or 1,352,094 gpd entering the system between manhole ID number 46910234 and 46909315.

• Ivar Avenue:

The capacity of the easterly 8-inch VCP sewer line in Ivar Avenue is:

o 1.276 cfs or 824,700 gpd entering the system between manhole ID number 46909314 and 46909333.

_

² The 12 and 8-inch VCP sewer mains that are located in Yucca Street north of the Capitol Records Complex Site (to be protected in place) between Vine Street and Argyle Avenue is not included in the capacity discussion due to the sewer mains in this section being too far from the East Site improvements and any potential wye connections.

o 1.679 cfs or 1,085,166 gpd entering the system between manhole ID number 46909333 and 46913018.

The capacity of the westerly 12-inch VCP sewer line in Ivar Avenue is:

- o 5.806 cfs or 3,752,515 gpd entering the system between manhole ID number 46909315 and 46909332.
- o 5.125 cfs or 3,312,374 gpd entering the system between manhole ID number 46909332 and 46913017.
- Vine Street: The capacity of the 8-inch VCP sewer line in Vine Street is:
 - 2.244 cubic feet per second (cfs) or 1,450,335 gallons per day (gpd) entering the system between manhole ID number 46910236 and manhole ID number 46914001.
 - o 1.538 cfs or 994,035 gpd entering the system between manhole ID number 46914001 and 46914015.

• Argyle Avenue:

The capacity of the westerly 8-inch VCP sewer line in Argyle Avenue is:

- o 2.882 cfs or 1,862,685 gpd entering the system between manhole ID number 46910259 and 46914002.
- o 1.836 cfs or 1,186,637 gpd entering the system between manhole ID number 46914002 and 46914017.

The capacity of the easterly 8-inch VCP sewer line in Argyle Avenue is:

- o 0 cfs/gpd entering the system between manhole ID number 46914204 and 46914203.
- o 0 cfs/gpd entering the system between manhole ID number 46914203 and 46914202

2.3. ENERGY

ELECTRICITY

LADWP is responsible for providing power supply to the City while complying with Local, State, and Federal regulations.

LADWP's Power system is the nation's largest municipal electric utility, and serves a 465-square-mile area in Los Angeles and much of the Owens Valley. The system supplies more than 26 million megawatt-hours (MWh) of electricity a year for the City of Los Angeles'

1.4 million residential and business customers as well as over 5,000 customers in the Owens Valley. LADWP has over 7,460 megawatts (MW) of generation capacity from a diverse mix of energy sources including Renewable energy, Natural Gas, Nuclear, Large Hydro, coal and other sources. The distribution network includes 6,800 miles of overhead distribution lines and 3,597 miles of underground distribution cables.³

NATURAL GAS

Southern California Gas Company (SoCalGas) is responsible for providing natural gas supply to the City and is regulated by the California Public Utilities Commission and other state and federal agencies.

SoCalGas is the principal distributor of natural gas in Southern California, providing retail and wholesale customers with transportation, exchange and storage services and also procurement services to most retail core customers. SoCalGas is a gas-only utility and, in addition to serving the residential, commercial, and industrial markets, provides gas for enhanced oil recovery (EOR) and electric generation (EG) customers in Southern California. SoCalGas's natural gas system is the nation's largest natural gas distribution utility, and serves a 20,000 square-mile area in Central and Southern California. The system supplies natural gas to 21.6 million customers through 5.9 million meters in more than 500 communities.⁴

3. PROJECT

3.1 Construction

3.1.1. WATER

Water demand for construction of the Project would be required for dust control, cleaning of equipment, excavation/export, removal and re-compaction, etc. Based on a review of construction projects of similar size and duration, a conservative estimate of construction water use ranges from 1,000 to 2,000 gallons per day (gpd). Considering temporary construction water use will be less than the Project water consumption during operation, it is anticipated that the existing water infrastructure would meet the limited and temporary water demand associated with construction of the Project.

The Project will require construction of new, on-site water distribution lines to serve the new buildings. Construction impacts associated with the installation of water distribution lines would primarily involve trenching in order to place the water distribution lines below surface and would be limited to on-site water distribution, and minor off-site work associated with connections to the public main. Prior to ground disturbance, Project contractors would coordinate with LADWP to identify the locations and depth of all lines.

³ LADWP, 2015 Power Integrated Resource Plan, December 2015.

⁴ California Gas and Electric Utilities, 2016 California Gas Report, 2016.

Further, LADWP would be notified in advance of proposed ground disturbance activities to avoid water lines and disruption of water service.

3.1.2. WASTEWATER

Wastewater generation would occur incrementally throughout construction of the Project as a result of construction workers on-site. However, such use would be temporary and nominal when compared with the wastewater generated by the Project during operation. In addition, construction workers would typically utilize portable restrooms, which would not contribute directly to the wastewater system that serves the site but would eventually be deposited to the Hyperion Treatment Plant. Thus, wastewater generation from Project construction activities is not anticipated to cause a measurable increase in wastewater flows.

3.1.3. ENERGY

Electrical power would be consumed to construct the new buildings and facilities of the proposed Project. Typical uses include temporary power for lighting, equipment, construction trailers, etc. The demand would be supplied from existing electrical services within the Project Site and would not affect other services. Overall, demolition and construction activities would require minimal electricity consumption and would not be expected to have any adverse impact on available electricity supplies and infrastructure. No natural gas usage is expected to occur during construction.

Construction impacts associated with the Project's electrical and gas infrastructure upgrades would primarily be confined to trenching. Infrastructure improvements will comply with all applicable LADWP, SoCalGas, and City requirements, which are expected to and would in fact mitigate impact to existing energy systems and adjacent properties. To reduce any temporary pedestrian access and traffic impacts during any necessary off-site energy infrastructure improvements, a construction management plan would be implemented to ensure safe pedestrian and vehicular travel.

3.2. OPERATION

3.2.1. WATER

INFRASTRUCTURE CAPACITY

When analyzing the Project for infrastructure capacity, the projected demands for both fire suppression and domestic water are considered. Although domestic water demand is the Project's main contributor to water consumption, fire flow demands have a much greater instantaneous impact on infrastructure, and therefore are the primary means for analyzing infrastructure capacity. Nevertheless, conservative analysis for both fire suppression and domestic water flows has been completed by LADWP for the Project.

LADWP performed a hydraulic analysis of their water system to determine if adequate fire flow is available to the fire hydrants surrounding the Project Site. LADWP's approach consists of analyzing their water system model in the vicinity of the Project Site. Based on the results, LADWP determines whether they can meet the project fire hydrant flow needs based on existing infrastructure. See Exhibit 2 for the results of the Information of Fire Flow Availability Request (IFFAR).

In addition, LADWP performed a flow test to determine if available water conveyance exists for future development. LADWP's approach consists of data ranging from available static pressure (meaning how much pressure is available at the source before applying the project's demand), to the available pressure at the maximum demand needed for the project. Based on the results, LADWP determines whether they can meet the project needs based on existing infrastructure. See Exhibit 3 for the results of the Service Advisory Request (SAR).

FIRE WATER DEMAND

Based on fire flow standards set forth in Section 57.507.3 of the Los Angeles Municipal Code (LAMC), and as determined by the Los Angeles Fire Department (LAFD), the Project falls within the Commercial Regional Center Neighborhood category; therefore, the required fire flow for the project is 6,000-9,000 gallons per minute (gpm) from four to six hydrants running simultaneously. An IFFAR was submitted to LADWP regarding available fire hydrant flow to demonstrate compliance. The completed IFFAR, attached as Exhibit 4, shows six nearby hydrants in the vicinity of the Project Site flowing simultaneously for a combined 9,000 gpm. As shown by the IFFAR, the Project Site has adequate fire flow available to demonstrate compliance with Section 57.507.3 of the LAMC.

Furthermore, the Section 57.513 of the LAMC, Supplemental Fire Protection, states that:

Where the Chief determines that any or all of the supplemental fire protection equipment or systems described in this section may be substituted in lieu of the requirements of this chapter with respect to any facility, structure, group of structures or premises, the person owning or having control thereof shall either conform to the requirements of this chapter or shall install such supplemental equipment or systems. Where the Chief determines that any or all of such equipment or systems is necessary in addition to the requirements of this chapter as to any facility, structure, group of structures or premises, the owner thereof shall install such required equipment or systems.

The Project will incorporate a fire sprinkler suppression system to reduce the public hydrant demands, which will be subject to LAFD review and approval during the design and permitting of the Project. Based on Section 94.2020.0 of the LAMC that adopts by reference the National Fire Protection Association (NFPA) 14-2013 including Section 7.10.1.1.5, the maximum allowable fire sprinkler demand for a fully or partially sprinklered building would be 1,250 gpm. As noted, four SARs (two for each site) were submitted to LADWP in order to determine if the existing public water infrastructure could meet the demands of the Project. The approved SARs can be found in Exhibit 3 and the results are summarized below.

• East Site

- The SAR for the domestic and fire water service off Vine Street shows that a static pressure of 65 pounds per square inch (psi) and a flow of up to 2,500 gpm can be delivered with a residual pressure of 61 psi.
- The SAR for the redundant fire water service off Argyle Street shows that a static pressure of 56 psi and a flow of up to 2,500 gpm can be delivered with a residual pressure of 37 psi.

West Site

- o The SAR for the domestic and fire water service off Vine Street shows that a static pressure of 62 psi and a flow of up to 2,500 gpm can be delivered to the Project Site with a residual pressure of 61 psi.
- o The SAR for the redundant fire water service off Ivar Street shows that a static pressure of 55 psi and a flow of up to 2,500 gpm can be delivered with a residual pressure of 54 psi.

The SARs show that the fire and domestic water demands of the Project can be accommodated and the 20 psi requirement for the surrounding public hydrants is exceeded.

DOMESTIC WATER DEMAND

The Board of Water and Power Commissioners approved the Project's WSA on December 11, 2018. The Project water consumption estimates are based on the WSA prepared and approved by LADWP. LADWP based the WSA water demand on 100 percent of the LASAN sewerage generation factors for the Project's various uses. Both the Project and the East Site Hotel Option were considered when estimating the domestic water demand. It was determined in the WSA that the water demand of the East Site Hotel Option was greater than the Project and is therefore the more conservative option. The Project Option water generation can be found in the WSA table I-A. The more conservative estimated water generation based on the WSA for the East Site Hotel Option is summarized in Table 1 below.

Table 1 – Estimated P	roposed Wate	er Demand – Eas	st Site Hotel Option	15	
Land Use	Units	Generation Rate (gpd/unit) ⁶	Base Demand (gpd)	Required Ordinances Water Savings ⁷	Proposed Water Demand (gpd)
West Site	T				
Residential: Apt – 1 Bdrm.	195 dwelling units (du)	110/ du	21,450		
Residential: Apt – 2 Bdrms.	198 du	150/ du	29,700		
Residential: Apt – 3 Bdrms.	56 du	190/ du	10,640		
Residential: Apt – 1 Bdrms Senior Affordable	59 du	110/ du	6,490		
Residential: Apt – 2 Bdrms Senior Affordable	9 du	150/ du	1,350		
East Site					
Residential: Apt – 1 Bdrm.	117 du	110/ du	12,870		
Residential: Apt – 2 Bdrms.	132 du	150/ du	19,800		
Residential: Apt – 3 Bdrms.	70 du	190/ du	13,300		
Residential: Apt – 1 Bdrms Senior Affordable	40 du	110/ du	4,400		
Residential: Apt – 2 Bdrms Senior Affordable	8 du	150/ du	1,200		
Base Demand Adjustment ⁸			14,690		
Residential Units Total	884 du		135,890	32,232	103,658
West Site					
Market-rate					
Lobby	7,535 sf	0.05	377		
Health Club	5,784 sf	0.65	3,760		
Office	3,957 sf	0.12	475		
Lounge	14,047 sf	0.05	702		
Bar Cocktail	2,470 sf	0.72	1,778		
Senior Affordable					
Lobby	1,287 sf	0.05	64		

Space Space			1 f ⁻ 7	V	111
Outdoor Common	2,120 01		444	0	444
Pool	2,125 sf		200		
Spa	125 sf		12		
East Site	2,240 51		210	<u> </u>	
Pool	2,240 sf		210		
Spa	240 sf		23		
West Site			30,700	4,070	34,070
Commercial Total	1,232 Seats	30/Scal	36,960 36,960	4,890	32,070
Restaurant	1,232 seats	30/seat	36,960	3,143	43,043
Room) ¹⁰ Hotel Room Total			28,792	3,143	25,649
Base Demand Adjustment (Hotel			2,392		
Hotel Room	220	room	26,400		
Total			,	,===	- ,
Indoor Amenities	_,		13,497	4,215	9,062
Lounge	2,000 sf	0.05	100		
Lobby	1,839 sf	0.05	92		
Senior Affordable	1,507 51	0.05	22 0		
Rooms Residential Lounge ⁹	4,389 sf	0.05	220		1
Club Hotel Conference	2,907 sf	0.12	349		
Residential Health	6,807 sf	0.65	4,425		
Hotel Health Club	1,150 sf	0.65	748		
Hotel Back of the House	1,956 sf				
Residential Lobby	3,021 sf	0.05	151		-
Hotel Lobby	3,227 sf	0.05	161		
Market-rate		т			
East Site					
Lounge	1,895 sf	0.05	95		

⁵ The water demand estimate is based on the more conservative East Site Hotel Option from the WSA.

⁶ The average daily flow rates are based on the WSA, which are then based on 100% of the LASAN sewerage generation factors.

⁷ Required ordinance savings per the WSA.

⁸ Base demand adjustment per WSA.

⁹ Per correspondence with LADWP on December 27, 2018, the net additional water demand for the East Site Hotel Option is still 205 afy. Therefore, it does not qualify as a substantial increase in water per Water Code 10910. The WSA does not need to be amended.

¹⁰ Base demand adjustment per WSA.

Landscaping	23,844 sf		2,227	1,029	1,198
Covered Parking	676,111 sf	0.02	445	0	445
Cooling Tower Total	3,000 Ton	21.64	64,911	48,192	16,719
Proposed Subtotal			283,166	93,701	189,465
Less Existing to be Removed Total					0
Less Additional Conservation					-6,568
Net Additional Water Demand					182,897 gpd

3.2.2. WASTEWATER

The potential impacts of the Project on the existing public sewer infrastructure are analyzed by comparing the estimated Project wastewater generation with the calculated available capacity of the existing facilities.

Pursuant to LAMC Section 64.15 LASAN Wastewater Engineering Division (WED) made a preliminary analysis of the local and regional sewer conditions to determine if available wastewater conveyance and treatment capacity exists for future development of the Project Site. LASAN's approach consisted of the study of a worst-case scenario envisioning peak demands from the relevant facilities occurring simultaneously on the wastewater system. A combination of flow gauging data and computed results from the City's hydrodynamic model were used to project current and future impacts due to additional sewer discharge. The data used in this report are based on the findings of the LASAN preliminary analysis. Refer to Exhibit 4 for the Sewer Capacity Availability Report (SCAR) prepared for the Project, which contains the results of the LASAN preliminary analysis.

In accordance with the *L.A. CEQA Thresholds Guide*, the future wastewater generation was estimated based on the proposed project size and types of land uses and the LASAN sewerage generation factors. Therefore, as outlined in Table 1 below, the more conservative East Site Hotel Option will generate approximately 322,067 gallons per day (gpd) of wastewater.

Table 1 – Estimated Proposed Wastewater Generation – East Site Hotel Option					
Land Use Units		Generation Rate (gpd/unit) ¹¹	Total Wastewater Generation (gpd)		
Proposed ¹²					
Residential: Apt – 1 Bdrm.	411 rooms	110/Room	45,210		
Residential: Apt – 2 Bdrms. 347 rooms 150/Room 52,050					

¹¹ The average daily flow rates are based on 100% of the LASAN sewerage generation factors.

¹² The SCAR is based on the more conservative East Site Hotel Option.

Residential: Apt – 3 Bdrms.	126 rooms	190/Room	23,940
Hotel: Use Guest Rooms Only	220 rooms	120/Room	26,400
Retail Area (>= 100,000 SF)	16,248 sf	50/1,000 sf	812
Restaurant: Full Service Indoor Seat ¹³	1,232 seats	30/seat	36,960
Office Building w/ cooling tower	7,925 sf	170/1,000 sf	1,347
Lounge ¹⁴	20,500 sf	50/1000 sf	1,025
Health Club/Spa	8,194 sf	650/1000 sf	5,326
Bar Cocktail	2,470 sf	720/1000 sf	1,778
Conference Rooms	4,082 sf	120/1000 sf	490
Swimming Pools ¹⁵	16,941 cf	7.4805/cf	126,728
		Subtotal Proposed	322,067

The SCAR results indicated that no sewer system improvements are necessary. The LASAN analyzed the Project demands in conjunction with existing conditions and forecasted growth, and has approved the Project to discharge up to 322,067 gpd of wastewater. No water conservation commitments from the Applicant and as required by regulatory compliance per the WSA have been considered as part of the sewer capacity availability assessment to be more conservative. Therefore, the increase in sewer flow to the existing infrastructure is 322,067 gpd.

As further discussed above, the existing design capacity of the Hyperion Service Area is approximately 550 mgd (consisting of 450 mgd at the Hyperion Treatment Plant, 80 mgd at the Donald C. Tillman Water Reclamation Plant, and 20 mgd at the Los Angeles—Glendale Water Reclamation Plant). The Project's proposed wastewater generation is approximately 0.322 mgd. This is equal to less than one percent of the Hyperion Service Area capacity where the Project's wastewater would be treated.

¹³ To calculate the number of seats, 1 seat per 15 sf was assumed.

¹⁴ The lounge use includes a library, multipurpose rooms, kid rooms and general amenity space.

¹⁵ The Swimming Pool use includes a 21 cf Water Feature.

¹⁶ City of Los Angeles Department of Public Works, Bureau of Sanitation, Water Reclamation Plants, <u>https://www.lacitysan.org/san/faces/home/portal/s-lsh-wwd/s-lsh-wwd-cw/s-lsh-wwd-cw-p?_adf.ctrl-state=oep8lwkld_4&_afrLoop=28344654751341747#, accessed August 20, 2018.</u>

3.2.3 ENERGY

ELECTRICITY

A will serve letter was sent to LADWP to determine if there is sufficient capacity to serve the Project. Based on the response from LADWP (see Exhibit 5), electrical service is available and can be served to the Project.

The Project will increase electricity consumption. Based upon the *Preliminary Annual Energy Demand Analysis* by Glumac, dated August 27, 2018 (see Exhibit 7), both the Project and the East Site Hotel Option were considered when estimating the electrical demand. It was determined that the electrical demand of the Project under the Hotel Option was greater than the Project and is therefore the more conservative option. Based on the proposed use, the estimated electrical loads are 12,366 kilo-volt-ampere (kVa) for the West Site and 12,993 kVa for the East Site Hotel Option; and the emergency electrical demand is 4,000 kVa for the West Site and 4,000 kVa for the East Site Hotel Option.

NATURAL GAS

A will serve letter was sent to the Southern California Gas Company (SoCal Gas) to determine if there is sufficient capacity to serve the Project. Based on the response from the SoCal Gas (see Exhibit 6), gas service is available and can be served to the Project. The Project will increase the demand for natural gas resources. Based upon the *Preliminary Annual Energy Demand Analysis* by Glumac, dated August 27, 2018 (see Exhibit 7), both the Project and the East Site Hotel Option were considered when estimating the electrical demand. It was determined that the natural gas demand of the Project under the Project Option was greater than the Hotel Option and is therefore the more conservative option. Based on the proposed use, the estimated natural gas loads are 70,000,000 British thermal unit per hour (Btu/h) for the West Site and 70,000,000 Btu/hr for the East Site.

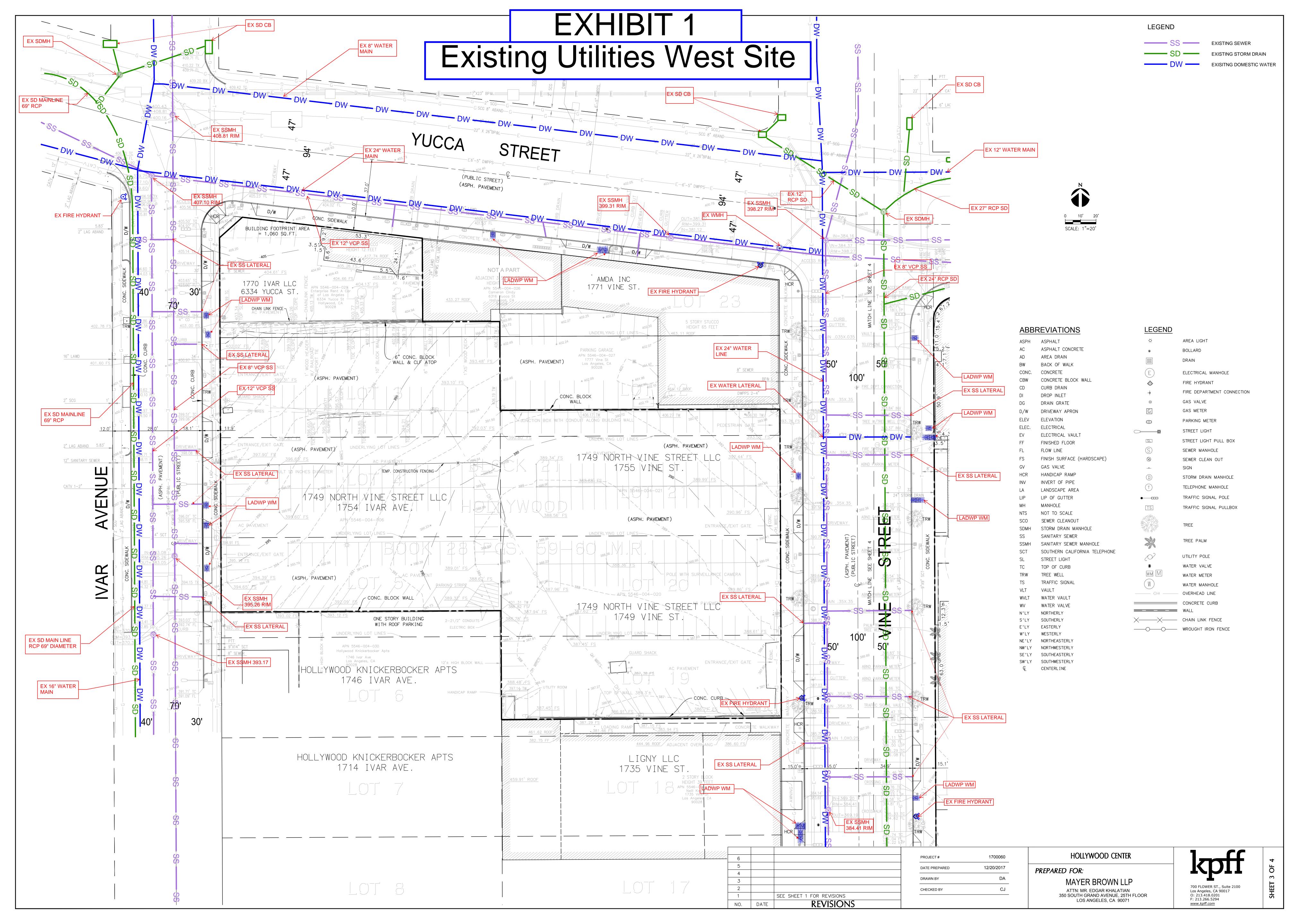
4. CONCLUSION

Based on the analysis contained in this report the existing municipal water, wastewater and energy infrastructure is adequate to meet the demand of the Project. The results from the IFFAR and the SARs completed by LADWP show that the existing water infrastructure is adequate to meet the water demand of the Project. The results of the SCAR completed by LASAN show that the existing sewer infrastructure is adequate to meet the sewerage generation of the Project. The will serve letter from LADWP shows that the existing electrical infrastructure is sufficient to meet the electrical demand of the project. The will serve letter from SoCal Gas shows that the existing gas infrastructure is sufficient to meet the gas demand of the Project.

Therefore, the existing municipal water, wastewater and energy infrastructure has sufficient capacity to accommodate the Project and no improvements will be required.



EXHIBIT 1



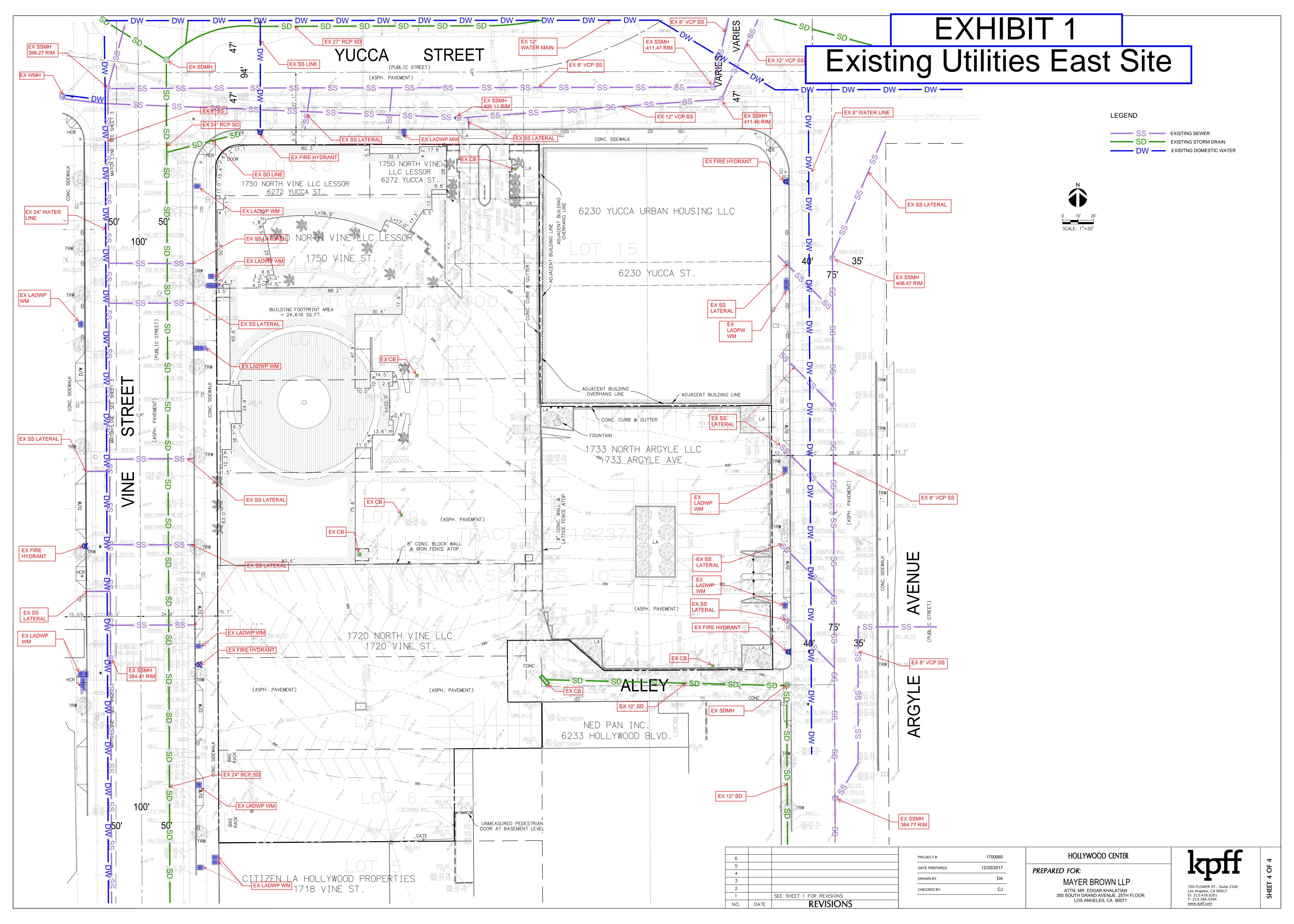


EXHIBIT 2



City of Los Angeles

Los Angeles Department of Water and Power - Water System

INFORMATION OF FIRE FLOW AVAILABILITY

LAFD Fire Flow Requirement:	9000 GPM -	- (6 Hydrants)	Water Service Map No.: LAFD Signature:	& 150-186 148-186 & 148-189
			Date Signed:	
Applicant:	Rickard Severinsson	- XX - 440 (A) - DA - A		
Company Name:	KPFF Consulting Engine	eers		
Address:	700 S Flower Street, Si	uite 2100, Los Angeles	90017	
Telephone:	(213) 418-0201			
Email Address:	rickard.severinsson@k	off.com		
			•	
	F-42725	F-39726	F-39725	
Location:	Southeast Corner of Yucca St and Vine St Intersection	The West side of Argyle Ave. 377 feet south of the centerline of Yucca St & Argyle Ave Intersection.	The East side of Vine St. 384 feet south of the centerline of Yucca St & Vine St Intersection.	
Distance from Neareast				
Pipe Location (feet):	81'	25'	72'	
Hydrant Size:	2 1/2 X4D	4D	4D	
Water Main Size (in):	24	8	12	
Static Pressure (nsi):	012:	ONAL CITY	88 20	

NOTE: Data obtained from hydraulic analysis using peak hour.

1500

Residual Pressure (psi): Flow at 20 psi (gpm):

Remarks: This is the first of 2 requests for a new project located at 1720-1724, 1	745-1753	Vine Street Los Angeles, CA 90028
6 PH. COMBINED FLOW OF 900	o apm	SIMULTANEOUSLY.
Water Purveyor: Los Angeles Department of Water & Power		Date: 8/29/18
Signtature:	Title:	CE ASSOCIATE

Requests must be made by submitting this completed application, along with a \$215.00 check payable to:

"Los Angeles Department of Water and Power", and mailed to:

Los Angeles Department of Water and Power

Distribution Engineering Section - Water

Attn: Business Arrangements P.O. Box 51111 - Room 1425 Los Angeles, CA 90051-5700

^{*} If you have any questions, please contact us at (213) 367-2130 or visit our web site at http://www.ladwp.com.



City of Los Angeles Los Angeles Department of Water and Power - Water System

INFORMATION OF FIRE FLOW AVAILABILITY

LAFD Fire Flow Requirement:	9000 GPI	M - (6 Hydrants)	Water Service Map No.: LAFD Signature: Date Signed:		
Applicant:	Rickard Severinsson		Dute Signed.		
Company Name:	KPFF Consulting Engin	eers			
Address:		uite 2100, Los Angeles	90017		
Telephone:	(213) 418-0201				
Email Address:	rickard.severinsson@l	kpff.com	•		
	F-42692	F-36096	F-36095		
Location:	West side of Vine St. 312 feet south of the centerline of the Yucca & Vine St Intersection.	Southwest side of Yucca St and Vine St. intersection.	Southwest side of Yucca St and Ivar Ave. intersection.		
Distance from Neareast			4 .		
Pipe Location (feet):	28'	22'	16'		
Hydrant Size:	4D	4D	4D		
Water Main Size (in):	24	24	24		
Static Pressure (psi):	87ps;	82 PSi	78		
Residual Pressure (psi):	63 Ps:	59 PSi	55 PSi		
Flow at 20 psi (gpm):	1500	1500	1500		
NOTE: Data obtained from hyd	raulic analysis using	peak hour.			
Remarks: This is the second of 2 requests for	a new project located	at 1720-1724, 1745-175	ECMR No. 53 Vine Street Los Ange	W20 18 08 10026 eles, CA 90028	
6 FH - COMBINE	O FLOW OF 90	00 GPM SIMU	LTANEOSLY.		
Water Purveyor: Los Angeles	Department of Wate	r & Power	Date:	8/29/18	
Signtature:					
Requests must be made by s	ubmitting this compl	eted application, alo	ng with a \$215.00 ch	eck payable to:	
Los A	ngeles Department o	f Water and Power",	and mailed to:		
	Los Angeles Depart	tment of Water and I	Power		
	Distribution Eng	ineering Section - Wa	ater		
	Attn: Busi	ness Arrangements			
	P.O. Box 5	1111 - Room 1425			

Los Angeles, CA 90051-5700

^{*} If you have any questions, please contact us at (213) 367-2130 or visit our web site at http://www.ladwp.com.



EXHIBIT 3



EAST SITE

City of Los Angeles





SAR NUMBER 84269

Fire Service Pressure Flow Report

~P	WATER & POWER	

SERVICE NUMBER 633920

For:			1720	VINE ST				Approved Date: 3-31-202
Proposed	Service	8 INCH	off of the					
24	inch ma	in in VINE ST			on the	EAST	side approximately	
410	_ feet _	SOUTH of	SOUTH	of YUCCA	ST		The System maxim	num pressure is
89	psi based on street curb elevation of 385 feet above sea level at this location.							
Т	ne distance	e from the DWP s	treet main to th	e property line	e is 72	f	eet	
System ma	aximum pı	ressure should b	e used only fo	r determining	a class o	of piping a	and fittings.	

Residual Flow/Pressure Table for water system street main at this location						
Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	
0	65					
2500	64					

Meter Assembly Capacities

Domestic	: Meters
1 inch =	56 gpm
1-1/2 inch =	96 gpm
2 inch =	160 gpm
3 inch =	220 gpm
4 inch =	400 gpm
6 inch =	700 gpm
8 inch =	1500 gpm
10 inch =	2500 gpm

Fire Service				
2 inch = 250 gpm				
4 inch = 600 gpm				
6 inch = 1400 gpm				
8 inch = 2500 gpm				
10 inch = 5000 gpm				

FM Services
8 inch = 2500 gpm
10 inch = 5000 gpm

These values are subject to change due to changes in system facilities or demands.

Notes: Do not sell combo. The 10" domestic service will have the same residual pressure as 8" FS.

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 03-31-20. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

ELIA SUN	ELIA SUN	148-186
Prepared by	Approved by	Water Service Map



EAST SITE

City of Los Angeles





SAR NUMBER 84288

Fire Service Pressure Flow Report

SERVICE NUMBER 633922

in ARGYLE AVE	ff of the	on the	WEST	side approximately	
		on the	WEST	side approximately	
OUTU of COL					
JUIN 01	UTH of YUC	CAST		The System maximum pressure is	
on street curb elevation	on of	feet above	sea level a	at this location.	
fro	m the DWP street n	m the DWP street main to the property	m the DWP street main to the property line is 25	m the DWP street main to the property line is 25	

Residual Flow/Pressure Table for water system street main at this location Flow Press. Flow Press. Flow Press. (gpm) (psi) (psi) (gpm) (psi) (gpm)

Meter Assembly Capacities

Domestic Meters				
1 inch =	56 gpm			
1-1/2 inch =	96 gpm			
2 inch =	160 gpm			
3 inch =	220 gpm			
4 inch =	400 gpm			
6 inch =	700 gpm			
8 inch =	1500 gpm			
10 inch =	2500 gpm			

Fire Service				
2 inch = 250 gpm				
4 inch = 600 gpm				
6 inch = 1400 gpm				
8 inch = 2500 gpm				
10 inch = 5000 gpm				

FM Services	_
8 inch = 2500 gpm	
10 inch = 5000 gpm	

These values are subject to change due to changes in system facilities or demands.

Notes: With 1500 gpm simultaneous flow from 8" domestic service

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 04-01-20. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

ELIA SUN	ELIA SUN	148-189
Prepared by	Approved by	Water Service Map



WEST SITE

City of Los Angeles





SAR NUMBER **84268**

Fire Service Pressure Flow Report

SERVICE NUMBER	633919

For:			1745	VINE ST				Approved Date: 3-31-2020
Proposed :	Service	8 INCH	off of the					
24	inch ma	in in VINE ST			on the	WEST	side approximately	
220	_ feet _	SOUTH of	SOUTH	of YUCC	A ST		The System maxim	num pressure is
86	psi base	ed on street curb	elevation of	393 fee	et above	sea level a	at this location.	
The distance from the DWP street main to the property line is 28 feet								
System ma	aximum p	ressure should b	e used only fo	or determinin	g class o	of piping a	and fittings.	

Residual Flow/Pressure Table for water system street main at this location						
Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	
0	62					
2500	61					

Meter Assembly Capacities

Domestic Meters					
1 inch =	56 gpm				
1-1/2 inch =	96 gpm				
2 inch =	160 gpm				
3 inch =	220 gpm				
4 inch =	400 gpm				
6 inch =	700 gpm				
8 inch =	1500 gpm				
10 inch =	2500 gpm				

Fire Service				
2 inch = 250 gpm				
4 inch = 600 gpm				
6 inch = 1400 gpm				
8 inch = 2500 gpm				
10 inch = 5000 gpm				

FM Services	
8 inch = 2500 gpm	
10 inch = 5000 gpm	

These values are subject to change due to changes in system facilities or demands.

Notes: Do not sell combo. 10" domestic service will have the same residual pressure as 8" FS.

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 03-31-20. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

ELIA SUN	ELIA SUN	148-186
Prepared by	Approved by	Water Service Map



WEST SITE

City of Los Angeles





SAR NUMBER 84270

Fire Service Pressure Flow Report

SERVICE NUMBER	63392

For:			1746	IVAR AVE		Approved Date: 4-1-2020
Proposed :	Service	8 INCH	off of the			
24	inch ma	nin in YUCCAST	•	on the	SOUTH side a	approximately
100	_ feet	EAST of _	EAST	of IVAR AVE	The	System maximum pressure is
80	psi base	ed on street curb	elevation of	406 feet above se	ea level at this lo	cation.
The distance from the DWP street main to the property line is 22 feet System maximum pressure should be used only for determining class of piping and fittings.						

Residual Flow/Pressure Table for water system street main at this location Flow Press. Flow Press. Flow Press. (gpm) (psi) (gpm) (psi) (gpm) (psi) 0 55 2500 54

Meter Assembly Capacities

Domesti	c Meters
1 inch =	56 gpm
1-1/2 inch =	96 gpm
2 inch =	160 gpm
3 inch =	220 gpm
4 inch =	400 gpm
6 inch =	700 gpm
8 inch =	1500 gpm
10 inch =	2500 gpm

Fire Service				
2 inch = 250 gpm				
4 inch = 600 gpm				
6 inch = 1400 gpm				
8 inch = 2500 gpm				
10 inch = 5000 gpm				

FM Services				
8 inch = 2500 gpm				
10 inch = 5000 gpm				

These values are subject to change due to changes in system facilities or demands.

Notes: With 1500 gpm simultaneous flow from 8" domestic service

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 04-01-20. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

ELIA SUN	ELIA SUN	150-186	
Prepared by	Approved by	Water Service Map	

EXHIBIT 4

City of Los Angeles Bureau of Engineering

Sewer Capacity Availability Request (SCAR)

To: Bureau of Sanitation

The following request is submitted to you on behalf of the applicant requesting to connect to the public sewer system. Please verify that the capacity exists at the requested location for the proposed developments shown below. The results are good for 180 days from the date the sewer capacity approval from the Bureau of Sanitation. Lateral connection of development shall adhere to Bureau of Engineering Sewer Design Manual Section F 480.

1720-1724 VINE ST, 1746-1764

Job Address: IVAR AVE, 6334 YUCCA ST, Sanitation Scar ID: 64-5048-0220

1733-1741 ARGYLE

Date Submitted 02/27/2020 Request Will Serve Letter? Yes

BOE District: Central District

Applicant: RICKARD SERVERINSSON, KPFF

CONSULTING ENGINEERS

Address: 700 S FLOWER ST, SUITE 2100 City: LOS ANGELES

State: CA Zip: 90017

Phone: 213.418.0201 Fax:

Email: RICKARD.SEVERINSSON@KPFF.COM BPA No.

S-Map: 469 Wye Map: 4755-2

SIMM Map - Maintenance Hole Locations

No.	Street Name	U/S MH	D/S MH	Diam. (in)	Approved Flow %	Notes	
1	VINE ST	46914001	46914015	8	48.00	154,592 GPD	
2	YUCCA ST	46910234	46909315	12	5.00	16,103 GPD	
3	IVAR AVE	46909314	46909333	8	26.00	83,737 GPD	
4	ARGYLE AVE	46910259	46914211	8	21.00	67,634 GPD	

Proposed Facility Description

	Proposed Facility	Description			
No.	Proposed Use Description	Sewage Generation (GPD)	Unit	Qty	GPD
1	RESIDENTIAL: APT - 1 BDRM. *6	110	DU	411	45,210
2	RESIDENTIAL: APT - 2 BDRMS *6	150	DU	347	52,050
3	RESIDENTIAL: APT - 3 BDRMS *6	190	DU	126	23,940
4	RESTAURANT: FULL SERVICE INDOOR SEAT	30	SEAT	1,232	36,960
5	LOBBY OF RETAIL AREA *1	50	KGSF	16,248	812
6	OFFICE BUILDING W/COOLING TOWER	170	KGSF	7,925	1,347
7	LOUNGE *1	50	KGSF	20,500	1,025
8	SWIMMING POOL (COMMERCIAL WITH BACKWASH FILTERS)		GPD	126,728	126,728
9	HEALTH CLUB/SPA *10	650	KGSF	8,194	5,326
10	HOTEL: USE GUEST ROOMS ONLY	120	ROOM	220	26,400
11	CONFERENCE ROOM OF OFFICE BLDG.		GPD	490	490
12	BAR: COCKTAIL, PUBLIC TABLE AREA *4	720	KGSF	2,470	1,778

Scar Request Number: 3407

322,067

Remarks

1): This SCAR will supersede previous SCAR IDs # 63-4267-0818. 2): Approved for the maximum allowable capacity of 322,067 GPD (223.66 gpm). 3): Discharge as indicated on SCAR notes. 4): IWP required.

Note: Results are good for 180 days from the date of approval by the Bureau of Sanitation

Date Processed: 03/10/2020 Expires On: 09/06/2020

Processed by: CHRIS DEMONBRUN Sub

Bureau of Sanitation Phone: 323-342-6207 Sanitation Status: Approved

Reviewed by: Sunbula Azieh

on 03/02/2020

Submitted by: Thomas Lang

Bureau of Engineering

Central District

Phone: 213-482-7041

Fees Collected Yes SCAR FEE (W:37 / QC:707) \$2,568.50

Date Collected 02/27/2020 SCAR Status: Completed

Scar Request Number: 3407

City of Los Angeles Bureau of Engineering

SEWER CAPACITY AVAILABILITY REVIEW FEE (SCARF) - Frequently Asked Questions

SCAR stands for Sewer Capacity Availability Review that is performed by the Department of Public Works, Bureau of Sanitation. This review evaluates the existing sewer system to determine if there is adequate capacity to safely convey sewage from proposed development projects, proposed construction projects, proposed groundwater dewatering projects and proposed increases of sewage from existing facilities. The SCAR Fee (SCARF) recovers the cost, incurred by the City, in performing the review for any SCAR request that is expected to generate 10,000 gallons per day (gpd) of sewage.

The SCARF is based on the effort required to perform data collection and engineering analysis in completing a SCAR. A brief summary of that effort includes, but is not limited to, the following:

- 1. Research and trace sewer flow levels upstream and downstream of the point of connection.
- 2. Conduct field surveys to observe and record flow levels. Coordinate with maintenance staff to inspect sewer maintenance holes and conduct smoke and dye testing if necessary.
- 3. Review recent gauging data and in some cases closed circuit TV inspection (CCTV) videos.
- 4. Perform gauging and CCTV inspection if recent data is not available.
- 5. Research the project location area for other recently approved SCARs to evaluate the cumulated impact of all known SCARs on the sewer system.
- 6. Calculate the impact of the proposed additional sewage discharge on the existing sewer system as it will be impacted from the approved SCARs from Item 6 above. This includes tracing the cumulative impacts of all known SCARs, along with the subject SCAR, downstream to insure sufficient capacity exist throughout the system.
- 7. Correspond with the applicant for additional information and project and clarification as necessary.
- 8. Work with the applicant to find alternative sewer connection points and solutions if sufficient capacity does not exist at the desired point of connection.

Questions and Answers:

- 1. When is the SCARF applied, or charged?
 - It applies to all applicants seeking a Sewer Capacity Availability Review (SCAR). SCARs are generally required for Sewer Facility Certificate applications exceeding 10,000 gpd, or request from a property owner seeking to increase their discharge thru their existing connection by 10,000 gpd or more, or any groundwater related project that discharges 10,000 gpd or more, or any proposed or future development for a project that could result in a discharge of 10,000 gpd.
- 2. Why is the SCARF being charged now when it has not been in the past?

 The City has seen a dramatic increase in the number of SCARs over 10,000 and in the

The City has seen a dramatic increase in the number of SCARs over 10,000 gpd in the last few years and has needed to increase its resources, i.e., staff and gauging efforts, to respond to them. The funds collected thru SCARF will help the City pay for these additional resources and will be paid by developers and property owners that receive the benefit from the SCAR effort.

3. Where does the SCARF get paid?

The Department of Public Works, Bureau of Engineering (BOE) collects the fee at its public counters. Once the fee is paid then BOE prepares a SCAR request and forwards it to the BOS where it is reviewed and then returned to BOE. BOE then informs the applicant of the result. In some cases, BOS works directly with the applicant during the review of the SCAR to seek additional information and work out alternative solutions

Scar Request Number: 3407

BOARD OF PUBLIC WORKS MEMBERS

KEVIN JAMES PRESIDENT

AURA GARCIA VICE PRESIDENT

DR. MICHAEL R. DAVISPRESIDENT PRO TEMPORE

JESSICA CALOZA COMMISSIONER

M. TERESA VILLEGAS COMMISSIONER

DR. FERNANDO CAMPOS EXECUTIVE OFFICER CITY OF LOS ANGELES

CALIFORNIA



03/10/2020

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

GARY LEE MOORE, PE, ENV SP CITY ENGINEER

1149 S BROADWAY, SUITE 700 LOS ANGELES, CA 90015-2213

http://eng.lacity.org

RICKARD SERVERINSSON, KPFF CONSULTING ENGINEERS 700 S FLOWER ST, SUITE 2100 LOS ANGELES, CA, 90017

Dear RICKARD SERVERINSSON, KPFF CONSULTING ENGINEERS,

SEWER AVAILABILITY: 1720-1724 VINE ST, 1746-1764 IVAR AVE, 6334 YUCCA ST, 1733-1741 ARGYLE

The Bureau of Sanitation has reviewed your request of 02/27/2020 for sewer availability at 1720-1724 VINE ST, 1746-1764 IVAR AVE, 6334 YUCCA ST, 1733-1741 ARGYLE. Based on their analysis, it has been determined on 03/10/2020 that there is capacity available to handle the anticipated discharge from your proposed project(s) as indicated in the attached copy of the Sewer Capacity Availability Request (SCAR).

This determination is valid for 180 days from the date shown on the Sewer Capacity Availability request (SCAR) approved by the Bureau of Sanitation.

While there is hydraulic capacity available in the local sewer system at this time, availability of sewer treatment capacity will be determined at the Bureau of Engineering Public Counter upon presentation of this letter. A Sewer Connection Permit may also be obtained at the same counter provided treatment capacity is available at the time of application.

A Sewerage Facilities Charge is due on all new buildings constructed within the City. The amount of this charge will be determined when application is made for your building permit and the Bureau of Engineering has the opportunity to review the building plans. To facilitate this determination a preliminary set of plans should be submitted to Bureau of Engineering District Office, Public Counter.

Provision for a clean out structure and/or a sewer trap satisfactory to the Department of Building and Safety may be required as part of the sewer connection permit.

Lateral connection of development shall adhere to Bureau of Engineering Sewer Design Manual Section F 480.

Scar Request Number: 3407

Sincerely,

Thomas Lang

Central District, Bureau of Engineering

Scar Request Number: 3407

EXHIBIT 5

ERIC GARCETTI Mayor Commission
MEL LEVINE, President
WILLIAM W. FUNDERBURK JR., Vice President
JILL BANKS BARAD
CHRISTINA E. NOONAN
AURA VASQUES
BARBARA E. MOSCHOS, Secretary

DAVID H. WRIGHT General Manager

October 1, 2018

Rickard Severinsson kpff 700 South Flower Street, Suite 2100 Los Angeles, CA 90017

Subject: 1720-1770 N Vine St; 1746-1760 N Ivar Ave; 1733 & 1741 Argyle Ave; 6236, 6270, 6334 W Yucca St, Los Angeles, California 90028

Dear Mr. Severinsson,

This is in response to your submittal regarding electric service for the proposed project located at the above address.

Electric Service is available and will be provided in accordance with the Los Angeles Department of Water and Power's Rules Governing Water and Electric Service. The availability of electricity is dependent upon adequate generating capacity and adequate fuel supplies. The estimated power requirement for this proposed project is part of the total load growth forecast for the City of Los Angeles and has been taken into account in the planned growth of the City's power system.

If you have any questions regarding this matter, please contact me at (213) 367-4290.

Sincerely,

RALPH JARAMILLO

Engineer of Customer Station Design

RJ:ac

C/enc:

ENGR: Mr. Ralph Jaramillo

FileNet

EXHIBIT 6

WEST SITE



October 11, 2018

Attn: Rickard Severinsson KPFF 700 S. Flower St. Suite 2100 Los Angeles, CA. 90018

RE: Will Serve Letter Request for – Job ID# 43-2018-08-00067: 5546-004-020; 5546-004-021;

5546-004-032; 5546-004-029;

5546-004-006

Dear Sir/Madam:

Thank you for inquiring about the availability of natural gas service for your project. We are pleased to inform you that Southern California Gas Company (SoCalGas) has facilities in the area where the above named project is being proposed. The service would be in accordance with SoCalGas' policies and extension rules on file with the California Public Utilities Commission (Commission) at the time contractual arrangements are made.

This letter should not be considered a contractual commitment to serve the proposed project, and is only provided for informational purposes only. The availability of natural gas service is based upon natural gas supply conditions and is subject to changes in law or regulation. As a public utility, SoCalGas is under the jurisdiction of the Commission and certain federal regulatory agencies, and gas service will be provided in accordance with the rules and regulations in effect at the time service is provided. Natural gas service is also subject to environmental regulations, which could affect the construction of a main or service line extension (for example, if hazardous wastes were encountered in the process of installing the line). Applicable regulations will be determined once a contract with SoCalGas is executed.

If you need assistance choosing the appropriate gas equipment for your project, or would like to discuss the most effective applications of energy efficiency techniques, please contact our area Service Center at 800-427-2200.

Thank you again for choosing clean, reliable, and safe natural gas, your best energy value. Sincerely,

Pedro Reyes
Pipeline Planning Associate
Compton Headquarters

EAST SITE



October 8, 2018

Attn: Rickard Severinsson KPFF 700 S. Flower St. Suite 2100 Los Angeles, CA. 90018

RE: Will Serve Letter Request for – Job ID# 43-2018-08-00068: 5546-030-034; 5546-030-028;

5546-030-032; 5546-030-031;

5546-030-033

Dear Sir/Madam:

Thank you for inquiring about the availability of natural gas service for your project. We are pleased to inform you that Southern California Gas Company (SoCalGas) has facilities in the area where the above named project is being proposed. The service would be in accordance with SoCalGas' policies and extension rules on file with the California Public Utilities Commission (Commission) at the time contractual arrangements are made.

This letter should not be considered a contractual commitment to serve the proposed project, and is only provided for informational purposes only. The availability of natural gas service is based upon natural gas supply conditions and is subject to changes in law or regulation. As a public utility, SoCalGas is under the jurisdiction of the Commission and certain federal regulatory agencies, and gas service will be provided in accordance with the rules and regulations in effect at the time service is provided. Natural gas service is also subject to environmental regulations, which could affect the construction of a main or service line extension (for example, if hazardous wastes were encountered in the process of installing the line). Applicable regulations will be determined once a contract with SoCalGas is executed.

If you need assistance choosing the appropriate gas equipment for your project, or would like to discuss the most effective applications of energy efficiency techniques, please contact our area Service Center at 800-427-2200.

Thank you again for choosing clean, reliable, and safe natural gas, your best energy value. Sincerely,

Pedro Reyes
Pipeline Planning Associate
Compton Headquarters

EXHIBIT 7

MEMORANDUM

To: Addie Farrell Jessie Fan 80 South Lake Avenue, Suite 570 Pasadena, CA 91101 626.204.6170 afarrell@esassoc.com; jfan@esassoc.com

Date: August 27, 2018 From: Carlos Tolentino

Michael Adams - GLUMAC Carlos Tolentino – GLUMAC Eric Wong - GLUMAC

Manuel Eshaghof - GLUMAC Nicholas Gallucci - GLUMAC

Project Name: Millennium Hollywood Center Entitlement

Project Number: 06.18.00916

Subject: Preliminary Annual Energy Demand Analysis

This memo summarizes Glumac's preliminary demand estimates at the Hollywood Center East & West site. This estimate was generated using the following:

- Hollywood Center Entitlement Resubmission, April 2018
- Glumac past & current projects (local, scalable)

PRELIMINARY ENERGY USAGE ESTIMATES

A preliminary estimate of energy demand was requested for the project's East & West site, which estimates all demand associated with the residential areas, hotel, retail/restaurant, parking garages and outdoor areas. The below table shows electricity and natural gas demand estimates for the West, East and East (Hotel Included).

Hollywood Center - Preliminary Energy Demand							
Utility West Site East Site (w/ Hotel)							
Electricity [kVA]	12,366	11,650	12,993				
Electricity (Emergency) [kVA]	4,000	4,000	4,000				
Natural Gas [Btu/h]	70,000,000	70,000,000	60,000,000				

Please note these preliminary estimates are based on the below listed assumptions and will vary depending on project design, HVAC system, lighting design, and façade layout & performance. These preliminary estimates were developed for the purposes of high level demand estimations for this stage in entitlements, and could differ from actual demand calculated from the projects' final design. Supporting calculations are also provided below.

ASSUMPTIONS AND METHODOLOGY

Energy demand was calculated using 2014 National Electrical Code, various benchmarking databases and Glumac's internal project database. These energy demand calculations were applied on a per square foot basis based on space type.

- Title 24-2016 compliant envelope systems
- Title 24-2016 compliant HVAC, electrical, and plumbing systems
- 50% of "retail" area assumed as restaurant energy usage
- Typical breakdown of electricity/natural gas utilities consistent with comparable projects
- Typical window-wall ratio (WWR) percentage consistent with comparable projects
- Typical envelope performance characteristics consistent with comparable projects
- All lighting is compliant with Title 24-2016 prescriptive lighting requirements
- All parking garages are mechanically ventilated
- No renewable or combined heat & power systems

Page 2 of 10

This analysis was based on the following square footages outlined below:

Hollywood Center - Building Area Used in Energy Demand Calculations						
Building Area West Site East Site East Site (w/ Hotel)						
Residential	636,052	620,922	476,235			
Retail/Restaurant	12,690	17,486	17,486			
Hotel	-	-	130,278			
Amenity Space	80,354	80,354	67,013			
Parking	389,264	342,460	342,460			

SUPPORTING CALCULATIONS - RESI/HOTEL GAS SERVICE

RESI-HOTEL SCHEME - GAS SERVICE				
Description Total Estimated G Demand (BTU/H				
WEST SITE				
See Calculations Below	59,120,000			
Space Heating	7,000,000			
Pool WH	500,000			
Miscellaneous	600,000			
TOTAL	67,220,000			
EAST SITE				
See Calculations Below	45,270,400			
Space Heating	7,000,000			
Pool WH	500,000			
Miscellaneous	600,000			
TOTAL	53,370,400			

Round to 70,000,000

Round to 60,000,000

Millennium Hollywood Center Entitlement August 27, 2018 Page 3 of 10

Resi-Hotel Scheme			
WEST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
West Tower			
1 BR	195	195	
2BR	198	198	
3BR	56	56	
GWH			1,300,000
GR	449		29,185,000
CLD		449	15,715,000
West Affordable			
1 BR			
2 BR			
GWH			150,000
West Deck Level			
Single Occ. Mens Restroom (sm)			
Single Occ. Womens Restroom (sm)			
Multi-Occ. Mens Restroom (Ig)			
Multi-Occ. Womens Restroom (Ig)			
Amenity Drink Bar			3,000,000
Affordable Multipurpose room?			2,000,000
Affordable Support Services			
GWH			120,000
			·
West Mezz.			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Restaurant Kitchen			3,000,000
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Kitchen Restaurant (sm)			3,000,000
Mens Locker			
Womens Locker			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
GWH			400,000
West Ground Level			
Single Occ. Unisex Restroom			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			

Millennium Hollywood Center Entitlement August 27, 2018 Page 4 of 10

Resi-Hotel Scheme			
WEST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
Kitchen Restaurant (lg)			3,000,000
West B1			
Mens Bike Showers			
Womens Bike Showers			
Bldg Staff BOH?			
Management Offices?			
GWH			250,000
West B2			
Single Occ. Unisex Restroom			
TOTAL GAS DEMAND (PLBG)			59,120,000



Resi-Hotel Scheme			
EAST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
East Tower			
1 BR	117	117	
2 BR	132	132	
3 BR	70	70	
GWH			920,000
GR	319		20,735,000
CLD		319	11,165,000
East Affordable			
1 BR			
2 BR			
GWH			150,000
Hotel Guest Rooms			
Rooms		0	
East Deck Level			
Multi Occ. Mens Restroom (sm)			
Multi Occ. Womens Restroom (sm)			
Multi Occ. Mens Restroom (sm)			
Multi Occ. Womens Restroom (sm)			
Lounge (additional bathrooms?)			
Affordable Multipurpose Room?			
Affordable Support Services			
GWH			400
East Mezz Level			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Restaurant Kitchen (lg)			3,000,000
Single Occ. Unisex Restroom			
BOH Unisex Restroom			
Restaurant (No Kitchen?)			3,000,000
East Ground Level			

Millennium Hollywood Center Entitlement August 27, 2018 Page 6 of 10

Resi-Hotel Scheme			
EAST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
Multi-Occ. Mens Restroom (Ig)			
Multi-Occ. Womens Restroom (Ig)			
Restaurant Kitchen			3,000,000
Single Occ. Mens Restroom (sm)			
Single Occ. Womens Restroom (sm)			
Restaurant (No Kitchen?)			3,000,000
Additional Restrooms, (locations tbd)			
East B1 Level			
Bldg Staff BOH?			
Management Offices?			
East B2 Level			
Valet Unisex Restroom			
East B5 Level			
Mens Locker			
Womens Locker			
GWH			300,000
OWIT			300,000
TOTAL GAS DEMAND (PLBG)			45,270,400

SUPPORTING CALCULATIONS - ALL RESI GAS SERVICE

ALL RESI SCHEME - GAS SERVICE				
Description Total Estimated © Demand (BTU/I				
WEST SITE				
See Calculations Below	59,120,000			
Space Heating	7,000,000			
Pool WH	500,000			
Miscellaneous	600,000			
TOTAL	67,220,000			
EAST SITE				
See Calculations Below	55,670,400			
Space Heating	7,000,000			
Pool WH	500,000			
Miscellaneous	600,000			
TOTAL	63,770,400			

Round to 70,000,000

Round to 70,000,000

All Resi Scheme			
WEST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
West Tower			
1 BR	195	195	
2BR	198	198	
3BR	56	56	
GWH	449	449	1,300,000
GR			29,185,000
CLD			15,715,000
West Affordable			
1 BR			
2 BR			
GWH			150,000
West Deck Level			
Single Occ. Mens Restroom (sm)			
Single Occ. Womens Restroom (sm)			
Multi-Occ. Mens Restroom (Ig)			

Millennium Hollywood Center Entitlement August 27, 2018 Page 8 of 10

All Resi Scheme			
WEST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
Multi-Occ. Womens Restroom (lg)			
Amenity Drink Bar			3,000,000
Affordable Multipurpose room?			
Affordable Support Services			
GWH			120,000
West Mezz.			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Restaurant Kitchen			3,000,000
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Kitchen Restaurant (sm)			3,000,000
Mens Locker			
Womens Locker			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			400.000
GWH			400,000
West Ground Level			
Single Occ. Unisex Restroom			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Kitchen Restaurant (lg)			3,000,000
West B1			
Mens Bike Showers			
Womens Bike Showers			
Bldg Staff BOH?			
Management Offices?			
GWH			250,000
West B2			
Single Occ. Unisex Restroom			
TOTAL GAS DEMAND (PLBG)			59,120,000

All Resi Scheme			
EAST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
East Tower			
1 BR	175	175	
2 BR	172	172	
3 BR	76	76	
GWH	423	423	920,000
GR			27,495,000
CLD			14,805,000
East Affordable			
1 BR			
2 BR			
GWH			150,000
Hotel Guest Rooms			
Rooms		0	
East Deck Level			
Multi Occ. Mens Restroom (sm)			
Multi Occ. Womens Restroom (sm)			
Multi Occ. Mens Restroom (sm)			
Multi Occ. Womens Restroom (sm)			
Lounge (additional bathrooms?)			
Affordable Multipurpose Room?			
Affordable Support Services			
GWH			400
East Mezz Level			
Multi-Occ. Mens Restroom (md)			
Multi-Occ. Womens Restroom (md)			
Restaurant Kitchen (lg)			3,000,000
Single Occ. Unisex Restroom			
BOH Unisex Restroom			
Restaurant (No Kitchen?)			3,000,000
East Ground Level			
Multi-Occ. Mens Restroom (lg)			

Millennium Hollywood Center Entitlement August 27, 2018 Page 10 of 10

All Resi Scheme			
EAST	Gas Range	Clothes Dryer (resi)	Gas Demand (BTU/H)
Multi-Occ. Womens Restroom (Ig)			
Restaurant Kitchen			3,000,000
Single Occ. Mens Restroom (sm)			
Single Occ. Womens Restroom (sm)			
Restaurant (No Kitchen?)			3,000,000
East B1 Level			
Bldg Staff BOH?			
Management Offices?			
East B2 Level			
Valet Unisex Restroom			
East B5 Level			
Mens Locker			
Womens Locker			
GWH			300,000
TOTAL GAS DEMAND (PLBG)			55,670,400

PROJECT: MILLENNIUM HOLLWOOD CENTER	- EAST SITE	WITH HO	TEL			OCCUPA										
SUBJECT: LOAD ESTIMATE						COMME		_								
1.1 ENTER NAME HERE		HTING LOA	ENTER N		ESCR PTACLE L			E OTOR LO	ADC	001	ITINUOUS LOA	00	NON	KITCHEN	TOTAL	
	LIG	VA/	ADS .	RECE	VAV	UADS	IVI	OTOR LO	AUS	QTY or	KVA or	TOTAL	NON- CONTIN.	LOADS	TOTAL CONN.	TOTA
OAD SERVED	SQ.FT.	SQ.FT.	KVA	SQ.FT.	SQ.FT.	KVA	QTY.	HP.	KVA	SQFT.	KVA/SF	LOAD	KVA	KVA	KVA	AMP
AST SENIOR BUILDING																
RESIDENTIAL AMENITY, LOBBIES, BOH	3,497	2.00	7.0	3,497	3.00	10.5								<u> </u>	17	
IECH PN	2,000	1.00	2.0	2,000	3.00	6.0									8	
IECHANICAL LOADS							_	40	00.0					 		
STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN							2	10	23.2						23	
TRASH F							1	3	4.0 4.0						4	
RESIDENTIAL EXHAUST							7	3	28.0						28	
COOLING TOWER + PUMPS							1	200	199.0						199	
COMMON AREA								200	100.0						100	
LAUNDRY										9	3.000	27.0			27	
ELECTRIC DRYERS										9	11.000	99.0			99	
LEVATORS							4	40	172.8						173	
OUTDOOR COMMON OPEN SPACE																
SENIOR AFFORDABLE ROOF DECK	4,800	0.50	2.4	4,800	1.00	4.8									7	
ENIOR RESIDENTIAL LOAD													350		350	
AST BUILDING																
BM (ARGYLE)																
RETAIL/RESTAURANT	7,580	2.00	15.2	7,580	2.00	15.2								265	296	
INE GROUND																
RETAIL / RESTAURANT	9,905	2.00	19.8	9,905	2.00	19.8								347	386	
IECH PH	4,585	1.00	4.6	4,585	2.00	9.2									14	
IECH LOADS								4-								
STAIR PRESSURIZATION FANS							2	15	35.0						35	
CORRIDOR EXHAUSTS FAN							1	5	6.3					 	6	
TRASH ROOM EXHAUST							1	3	4.0						4	
RESIDENTIAL EXHAUST							12	3	48.0					 	48	
COOLING TOWER + PUMPS							1	350	344.0						344	
HVAC COOLING LOAD FOR ELEVATOR, FIRE PUMP																
ROOM, ETC. (40 TONS OF COOLING)														80	80	
V CHARGING STATIONS																
LEVATORS							7	100	721.7						722	
LEVATORS							3	40	129.6						130	
OUTDOOR COMMON OPEN SPACE	00.000	0.50	44.0	00.000	4.00	00.0								<u> </u>		
LEVEL 1 VINE/ARGYLE STREET LEVEL 2 AMENITY DECT	22,300 8,200	0.50	11.2 4.1	22,300 8,200	1.00	22.3 8.2									33 12	
SENIOR AFFORDABLE ROOF DECK	4,800	0.50	2.4	4,800	1.00	4.8									7	
NDOOR AMENITY SPACES	16,420	2.00	32.8	16,420	3.00	49.3									82	
OTEL LOAD	130,278	2.00	260.6	130,278	3.00	390.8				130,278	0.008	1,042.2			1,694	2,0
ESIDENTIAL LOAD	100,270	2.00	200.0	100,210	0.00	000.0				100,210	0.000	1,012.2	2,315	;	2,315	2,7
OUTDOOR COMMON OPEN SPACE	38,651	0.50	19.3	38,651	1.00	38.7									58	
NDOOR COMMON OPEN SPACE	8,151	2.00	16.3	8,151	3.00	24.5									41	
RIVATE BALCONIES	18,700	0.50	9.4	18,700	1.00	18.7									28	
00LS																
EAST SITE SPA - 125 SQ FT												58.2			58	
EAST SITE KIDS POOL - 350 SQ FT												58.2			58	
EAST SITE POOL - 1275 SQ FT												124.7			125	
WATER FEATURE WALL												83.1			83	
ARKING GARAGE	317,284	0.50	158.6	317,284	0.30	95.2									254	
SUMP PUMPS							2	5	12.6						13	
SEWAGE EJECTOR PUMPS							2	10	23.2						23	
BOOSTER PUMPS							3	30	99.6						100	
PARKING EXHAUST FANS							10	40	432.0						432	
PARKING SUPPLY FANS							10	40	432.0						432	
LADWP VAULT							2	10	23.2		0.00				23	
EV CHARGING STATIONS FIRE PUMPS (2) 200HP							_	000	200.0	69	9.600	662.4			662	
	117 100	0.50	E0 0	117 122	1.00	1171	2	200	398.0						398 176	
ITE AREAS	117,133	0.50	58.6	117,133	1.00	117.1									1/6	
CONN. KVA TOTALS>			624		<u> </u>	835			3,140			2,155	2,665	692	10,111	12,
CONIV. NVA TOTALS>			U_T			555	ALI	@ 100%:	3,140		ļ	2,100	2,000	DEMAND	10,111	12,
				1ST 10K	VA@100%:	10		ARGEST			TOTAL kVA:	2154.7		FACTOR		
CODE DEMAND		OTAL kVA:	624.2		JN @ 50%:		MOTO	R x 25%:	1.0	+ 2	5% CONT. LOAD	538.7		100%		
FACTORS	+ 25% CC		156.0											<u> </u>	·	
	A TOTALS	>	780			422			3,141			2,693	2,665		10,394	12
SPARE CAPA		>	25%			25%			25%			25%	25%	25%	12.000	
TOTAL D	ESIGN KVA L	> UAU	975			528	l		3,927			3,367	3,331	865	12,993	15
VA. / SQ.FT>	1 046 952	SO FT	0.9			0.5			3.8			3.2	3.2	0.8	12.4	
VA. / SQ.F1	1,040,352	Jow.⊢I.	0.9	QTY	XFMR.	0.0	O.L.		FAN		MAX.	MAX.	3.2	0.0	12.4	
					SIZE		RATING	•	COOLING	ì	KVA	AMPS.			ſ	809
??? AMP SWITCHBOARD				1	????	Х	100%		100%	=	#VALUE!	#VALUE!				

GLUMAC 503.227.5280 FAX: 503.274.7674

SUBJECT: LOAD ESTIMATE L1 ENTER NAME HERE DAD SERVED DATE OF THE STREET OF THE STRE	SQ.FT. 3,875 2,000	VA/ SQ.FT.	ENTER N ADS KVA 7.8 2.0				HER	OTOR LO		QTY or	ONTINUOUS LO	ADS TOTAL	NON- CONTIN.	KITCHEN LOADS	TOTAL CONN.	
DAD SERVED AST SENIOR BUILDING RESIDENTIAL AMENITY, LOBBIES, BOH ECHANICAL LOADS STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DIMMON AREA LAUNDRY ELECTRIC DRYERS	SQ.FT. 3,875	VA/ SQ.FT.	KVA 7.8	SQ.FT. 3,875	VAV SQ.FT.	OADS	М	OTOR LO		QTY or						
RESIDENTIAL AMENITY, LOBBIES, BOH ECH PN ECHANICAL LOADS STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DIMMON AREA LAUNDRY ELECTRIC DRYERS	SQ.FT. 3,875	VA/ SQ.FT.	KVA 7.8	SQ.FT. 3,875	VA/ SQ.FT.					QTY or						
RESIDENTIAL AMENITY, LOBBIES, BOH ECH PN ECHANICAL LOADS STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DIMMON AREA LAUNDRY ELECTRIC DRYERS	3,875	SQ.FT. 2.00	7.8	3,875	SQ.FT.	KVA	OTV									TOT
RESIDENTIAL AMENITY, LOBBIES, BOH ECH PN ECHANICAL LOADS STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DIMMON AREA LAUNDRY ELECTRIC DRYERS	-				3.00		QII.	HP.	KVA	SQFT.	KVA/SF	LOAD	KVA	KVA	KVA	AME
ECH PN ECHANICAL LOADS STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DMMON AREA LAUNDRY ELECTRIC DRYERS	-				3.00											
STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DMMON AREA LAUNDRY ELECTRIC DRYERS	2,000	1.00	2.0	2,000		11.6									19	
STAIR PRESSURIZATION FAN CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DMMON AREA LAUNDRY ELECTRIC DRYERS					3.00	6.0									8	
CORRIDOR EXHAUST FAN TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DIMMON AREA LAUNDRY ELECTRIC DRYERS							2	10	23.2						23	
TRASH ROOM EXHAUST RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DMMON AREA LAUNDRY ELECTRIC DRYERS							1	3	4.0						4	
RESIDENTIAL EXHAUST COOLING TOWER + PUMPS DMMON AREA LAUNDRY ELECTRIC DRYERS							1	3	4.0						4	
DMMON AREA LAUNDRY ELECTRIC DRYERS							7	3	28.0						28	
LAUNDRY ELECTRIC DRYERS							1	200	199.0						199	
ELECTRIC DRYERS																
										9	3.000	27.0			27	
EVATURS							_	40	470.0	9	11.000	99.0			99 173	
JTDOOR COMMON OPEN SPACE							4	40	172.8						1/3	
SENIOR AFFORDABLE ROOF DECK	4,800	0.50	2.4	4,800	1.00	4.8									7	
NIOR RESIDENTIAL LOAD	, , , , , , , , , , , , , , , , , , , ,			,									350		350	
AST BUILDING																
M (ARGYLE)																
RETAIL/RESTAURANT	7,580	2.00	15.2	7,580	2.00	15.2								265	296	
NE GROUND RETAIL / RESTAURANT	9,905	2.00	19.8	9,905	2.00	19.8								347	386	
ECH PH	4,585		19.8	4,585	2.00	9.2								341	386 14	
ECH LOADS	7,000		7.0	1,000	2.00	5.2										
STAIR PRESSURIZATION FANS							2	15	35.0						35	
CORRIDOR EXHAUSTS FAN							1	5	6.3						6	
TRASH ROOM EXHAUST							1	3	4.0						4	
RESIDENTIAL EXHAUST							12	3	48.0						48	
COOLING TOWER + PUMPS							1	350	344.0						344	
HVAC COOLING LOAD FOR ELEVATOR, FIRE PUMP ROOM, ETC. (40 TONS OF COOLING)														80	80	
CHARGING STATIONS																
EVATORS							7	100	721.7						722	
EVATORS							3	40	129.6						130	
DOOR AMENITY SPACES ESIDENTIAL LOAD	26,178	2.00	52.4	26,178	3.00	78.5							3,040		131 3,040	3,
JTDOOR COMMON OPEN SPACE	43,575	0.50	21.8	43,575	1.00	43.6									65	
DOOR COMMON OPEN SPACE	11,068	2.00	22.1	11,068	3.00	33.2									55	
RIVATE BALCONIES	24,200	0.50	12.1	24,200	1.00	24.2									36	
OOLS																
EAST SITE SPA - 125 SQ FT EAST SITE KIDS POOL - 350 SQ FT												58.2			58 58	
EAST SITE RIDS POOL - 330 SQ FT												58.2 124.7			125	
WATER FEATURE WALL												83.1			83	
ARKING GARAGE	317,284	0.50	158.6	317,284	0.30	95.2						30.1			254	
SUMP PUMPS							2	5	12.6						13	
SEWAGE EJECTOR PUMPS							2	10	23.2						23	
BOOSTER PUMPS							3	30	99.6						100	
PARKING EXHAUST FANS							10	40	432.0						432	
PARKING SUPPLY FANS							10	40	432.0						432 23	
LADWP VAULT EV CHARGING STATIONS								10	23.2	69	9.600	662.4			662	
FIRE PUMPS (2) 200HP							2	200	398.0	00	0.000	302.4			398	
TE AREA	117,133	0.50	58.6	117,133	1.00	117.1			220.0						176	
CONN. KVA TOTALS>			377			458		@ 4000°	3,140			1,112	3,390	692	9,170	11
				1ST 104	VA@100%:	10		. @ 100%: .ARGEST			TOTAL kVA:	1112.5	, ,	DEMAND FACTOR		
CODE DEMAND	Т	OTAL kVA:	377.3		JN @ 50%:			OR x 25%:	1.0	+ 2	5% CONT. LOAD	278.1	J	100%		
FACTORS>	+ 25% C0	ONT. LOAD	94.3													
	'A TOTALS	>	472			234			3,141			1,391	3,390	692	9,320	11
SPARE CAPA TOTAL DE	ESIGN KVA I	LOAD>	25% 590	1		25% 293	1		25% 3,927			25% 1,738	25% 4,238	25% 865	11,650	14
TOTAL DI	_5.5.4 RVA		330	I			J		5,521	l	ļ	1,730	7,230	000	11,000	
VA. / SQ.FT>	1,046,952	SQ.FT.	0.6			0.3			3.8			1.7	4.0	0.8	11.1	
_				QTY	XFMR.		O.L.		FAN		MAX.	MAX.	l			
E ??? AMP SWITCHBOARD				1	SIZE		RATING 100%		COOLING 100%	} =	KVA #VALUE!	AMPS. #VALUE!	I			809
E ??? AMP FEEDER			ļ	<u> </u>				^_	.0070						480V	, 3P
E ??? KAIC RATING														!		

PROJECT: MILLENNIUM HOLLYWOOD CENTER SUBJECT: LOAD ESTIMATE						OCCUP. COMME										
1.1 WEST SIDE SITE	1101	ITING LOAI	00	DECE	PTACLE LO	DADC		OTOR LO	ADC		ONTINUOUS LO	ADC	NON-	KITCHEN	TOTAL	
	LIGH	VA/) S	RECE	VA/	JADS	IVI	OTOR LO	ADS	QTY or	KVA or	TOTAL	CONTIN.	LOADS	CONN.	TOTAL
OAD SERVED	SQ.FT.	SQ.FT.	KVA	SQ.FT.	SQ.FT.	KVA	QTY.	HP.	KVA	SQFT.	KVA/SF	LOAD	KVA	KVA	KVA	AMPS
WEST SENIOR BUILDING																-
RESIDENTIAL AMENITY, LOBBIES, BOH MECH PN	3,815 2,000	2.00 1.00	7.6 2.0	3,815 2,000	3.00 2.00	11.4 4.0									19	2
MECH LOADS	2,000	1.00	2.0	2,000	2.00	4.0									0	
STAIR PRESSURIZATION FAN							2	10	23.2						23	2
CORRIDOR EXHAUST FAN							1	3	4.0						4	
TRASH ROOM EXHAUST							1	3	4.0						4	
RESIDENTIAL EXHAUST							7	3	28.0						28	3
COOLING TOWER + PUMPS COMMON AREA							1	200	199.0						199	23
LAUNDRY										9	3.000	27.0			27	3
ELECTRIC DRYERS										9	11.000	99.0			99	11
LVATORS							4	40	172.8						173	20
OUTDOOR COMMON OPEN SPACE																
LEVEL 2 SENIOR AFFORDABLE AMENITY DECK	1,080	0.50	0.5	1,080		1.1									2	
SENIOR AFFORDABLE ROOF DECK SENIOR RESIDENTIAL LOAD	4,050	0.50	2.0	4,050	1.00	4.1							391		391	47
													551		- 551	
WEST BUILDING																
(INE GROUND	-															-
RETAIL/RESTAURANT	3,810	2.00	7.6	3,810	2.00	7.6								133	149	17
M DETAIL / DESTAUDANT	0.004	2.00	47.0	0.004	2.00	47.0								044	240	4.4
RETAIL / RESTAURANT MECH PH	8,881 10,450	2.00 1.00	17.8 10.5	8,881 10,450	2.00	17.8 20.9								311	346 31	41
MECH LOADS	10,430	1.00	10.5	10,430	2.00	20.3									31	
STAIR PRESSURIZATION FANS							2	15	35.0						35	4
CORRIDOR EXHAUSTS FAN							1	5	6.3						6	
TRASH ROOM EXHAUST							1	3	4.0						4	
RESIDENTIAL EXHAUST							12	3	48.0						48	5
COOLING TOWER + PUMPS							1	350	344.0						344	41
HVAC COOLING LOAD FOR ELEVATOR, FIRE PUMP ROOM, ETC. (40 TONS OF COOLING)														80	80	9
ELEVATORS							7	100	721.7						722	86
LEVATORS							3	40	129.6						130	15
NDOOR AMENITY SPACES	35,001	2.00	70.0	35,001	3.00	105.0							0.500		175 3,592	21
RESIDENTIAL LOAD													3,592		3,592	4,32
OUTDOOR COMMON OPEN SPACE	38,973	0.50	19.5	38,973	1.00	39.0									58	7
NDOOR COMMON OPEN SPACE	20,791	2.00	41.6	20,791	3.00	62.4									104	12
PRIVATE BALCONIES	22,100	0.50	11.1	22,100	1.00	22.1									33	4
WEST SITE SPA 240 SQ FT												58.2			58	7
WEST SITE KIDS POOL 540 SQ FT												58.2			58	7
WEST SITE POOL 1700 SQ FT												124.7			125	15
ARKING GARAGE	378,512	0.50	189.3	378,512	0.30	113.6									303	36
SUMP PUMS SEWAGE EJECTOR							2	5 10	12.6 23.2						13 23	1 2
BOOSTER PUMPS							3	30	99.6						100	12
PARKING EXHAUST FANS							10	40	432.0						432	52
PARKING SUPPLY FANS							10	40	432.0						432	52
LADWP VAULT							2	10	23.2						23	2
EV CHARGING STATIONS							_	202	200.0	84	9.600	806.4			806	97
FIRE PUMPS (2) 200HP SITE AREA	83,792	0.50	41.9	83,792	1.00	83.8	2	200	398.0						398 126	47 15
TIL AKEM	03,792	0.50	41.9	03,792	1.00	03.8									120	15
CONN. KVA TOTALS>			421		•	493	İ		3,140	İ		1,173	3,983	524	9,735	11,70
				40= 46:				@ 100%:			TOT:			DEMAND		
CODE DEMAND	т	OTAL kVA:	421.3		VA@100%: AIN @ 50%:			ARGEST OR x 25%:	1.0		TOTAL kVA: 25% CONT. LOAD	1173.4 293.3		FACTOR 100%		
FACTORS		OTAL KVA.		I ALIVIA			.,,,,,,,		1.0	L ,	CONT. LOAD	200.0		10070		
DEMAND KV		>	527			251			3,141			1,467	3,983		9,893	11,90
SPARE CAP.	ACITY DESIGN KVA I	>	25% 658			25% 314			25% 3,927			25% 1,833	25% 4,979	25% 655	12,366	14,87
IOTAL D	LOIGN KVA	LUAU>	658	I		314	J		3,927	l		1,833	4,979	655	12,366	14,87
VA. / SQ.FT>	1,136,945	SQ.FT.	0.6			0.3			3.5			1.6	4.4	0.6	10.9	
		-		QTY	XFMR.	-	O.L.		FAN		MAX.	MAX.	1		-	
ISE				1	SIZE		RATING 100%		COOLING 100%	} =	KVA #VALUE!	AMPS.				80%
ISE ??? AMP FEEDER						_^	10070	^	10070		# TALUL!	"TALUL!	ı		480V	/, 3P

gineers for a sustainable future GLUM					UN			Y	C A	L C	ULA	TIC	<u> </u>			
PROJECT: MILLENNIUM HOLLWOOD CENTER SUBJECT: EMERGENCY + OPTIONAL LOAD CA		(typical fo	or with Hotel)			OCCUP/ COMME			1							
1.1 ENTER NAME HERE	LCULATION		ENTER N	AODE I				=								
1.1 ENTER NAME HERE	LIG		PTACLE L			OTOR LO	ΔDS	C	ONTINUOUS LO	ADS.	NON-	KITCHEN	TOTAL			
	Liv	VA/	I	REGI	VA/	OADO .		1	ADO .	QTY or	KVA or	TOTAL	CONTIN.	LOADS	CONN.	TOTAL
OAD SERVED	SQ.FT.	SQ.FT.	KVA	SQ.FT.	SQ.FT.	KVA	QTY.	HP.	KVA	SQFT.	KVA/SF	LOAD	KVA	KVA	KVA	AMPS
AST SENIOR BUILDING																
RESIDENTIAL AMENITY, LOBBIES, BOH	3,875	0.20	0.8												0.8	0
MECH PN	2,000	0.20	0.4												0.4	0
MECHANICAL LOADS																
STAIR PRESSURIZATION FAN							2	10	23.2						23.2	27
CORRIDOR EXHAUST FAN							1	3	4.0						4.0	4
TRASH ROOM EXHAUST							1	3	4.0						4.0	4
RESIDENTIAL EXHAUST							7	3	28.0						28.0	33
ELEVATORS							4	40	172.8						172.8	207
OUTDOOR COMMON OPEN SPACE																
SENIOR AFFORDABLE ROOF DECK	4,800	0.20	1.0												1.0	1
												-			╂	
EAST BUILDING																
BM (ARGYLE)																
RETAIL/RESTAURANT	7,580	0.20	1.5											150	151.5	182
/INE GROUND	7,580	0.20	1.5											150	131.3	102
RETAIL / RESTAURANT	9,905	0.20	2.0											250	252.0	303
MECH PH	4,585	0.20	0.9											200	0.9	1
MECH LOADS	1,000	0.20	0.0												0.0	
STAIR PRESSURIZATION FANS							2	15	35.0						35.0	42
CORRIDOR EXHAUSTS FAN							1	5	6.3						6.3	7.
TRASH ROOM EXHAUST							1	3	4.0						4.0	4
RESIDENTIAL EXHAUST							12	3	48.0						48.0	57
HVAC COOLING LOAD FOR ELEVATOR, FIRE PUMP														80	80.0	00
ROOM, ETC. (40 TONS OF COOLING) ELEVATORS							7	100	721.7					80	721.7	96. 868.
ELEVATORS							3	40	129.6						129.6	155.
OUTDOOR COMMON OPEN SPACE							3	40	129.0						129.0	100.
LEVEL 1 VINE/ARGYLE STREET	22,300	0.20	4.5												4.5	5.
LEVEL 2 AMENITY DECT	8,200	0.20	1.6												1.6	2.
SENIOR AFFORDABLE ROOF DECK	4,800	0.20	1.0												1.0	1.
NDOOR AMENITY SPACES	26,178	0.20	5.2												5.2	6.
OUTDOOR COMMON OPEN SPACE	43,575	0.20	8.7												8.7	10.
NDOOR COMMON OPEN SPACE	11,068	0.20	2.2												2.2	2.
PARKING GARAGE	317,284	0.20	63.5												63.5	76
SUMP PUMPS							2	5	12.6						12.6	15.
SEWAGE EJECTOR PUMPS							2	10	23.2						23.2	27.
PARKING EXHAUST FANS							10	40	432.0						432.0	519
PARKING SUPPLY FANS LADWP VAULT							10	40	432.0						432.0	519
FIRE PUMPS (2) 200HP							2	10 200	23.2 398.0						23.2 398.0	27 478
FIRE PUMPS (2) 200HP SITE AREA	117,133	0.20	23.4					200	398.0						398.0 23.4	28
DIE MICH	117,133	0.20	23.4												23.4	∠8
CONN. KVA TOTALS>			117						2,498					480	3,094	3,72
33						ı	ALL	@ 100%:	,	1			1	DEMAND	3,001	0,12
					VA@100%:		L	ARGEST			TOTAL kVA:			FACTOR		
CODE DEMAND		OTAL kVA:		REMA	AIN @ 50%:		MOTO	OR x 25%:	1.0	+ 2	25% CONT. LOAD			100%		
FACTORS		ONT. LOAD				1	<u> </u>		0.400	<u> </u>		1	<u> </u>	100	0.401	
DEMAND KI SPARE CAP		>	146 25%			25%			2,499 25%			25%	25%	480 25%	3,124	3,75
	ESIGN KVA	LOAD>	182			23/0	1		3,123			23/0	23/0	600	3,906	4,69
TOTAL				ı			1		5,120	ı		L	ı	000	0,000	,00
VA. / SQ.FT>	1,046,952	SQ.FT.	0.2						3.0					0.6	3.7	
				QTY	XFMR.		O.L.		FAN		MAX.	MAX.	1			
					SIZE		RATING		COOLING		KVA	AMPS.			I	80%
SE ??? AMP SWITCHBOARD				1	????	Х	100%	X	100%	=	#VALUE!	#VALUE!	ļ			
SE ??? AMP FEEDER SE ??? KAIC RATING															480V	, зР

PROJECT: MILLENNIUM HOLLYWOOD CENTER	- WEST SIT	E				OCCUP.	ANCY									
SUBJECT: EMERGENCY + OPTIONAL LOAD CA					(СОММЕ	RCIAL									
1.1 WEST SIDE SITE																
	LIGHTING LOADS			RECE	PTACLE LO	DADS	M	OTOR LO	ADS	С	ONTINUOUS L	DADS	NON-	KITCHEN	TOTAL	
		VA/			VA/					QTY or	KVA or	TOTAL	CONTIN.	LOADS	CONN.	TOTAL
LOAD SERVED	SQ.FT.	SQ.FT.	KVA	SQ.FT.	SQ.FT.	KVA	QTY.	HP.	KVA	SQFT.	KVA/SF	LOAD	KVA	KVA	KVA	AMPS
WEST SENIOR BUILDING																
RESIDENTIAL AMENITY, LOBBIES, BOH	3,815		0.8												0.8	0
MECH PN	2,000	0.20	0.4												0.4	0
MECH LOADS																
STAIR PRESSURIZATION FAN							2	10	23.2						23.2	27
CORRIDOR EXHAUST FAN							1	3	4.0						4.0	4
TRASH ROOM EXHAUST							1	3	4.0						4.0	4
RESIDENTIAL EXHAUST							7	3	28.0						28.0	33
ELVATORS							4	40	172.8						172.8	207
OUTDOOR COMMON OPEN SPACE																
LEVEL 2 SENIOR AFFORDABLE AMENITY DECK	1,080	0.20	0.2												0.2	0
SENIOR AFFORDABLE ROOF DECK	4,050	0.20	0.8												0.8	1
WEST BUILDING																
VINE GROUND																
RETAIL/RESTAURANT	3,810	0.20	0.8											150	150.8	181
1M																
RETAIL / RESTAURANT	8,881	0.20	1.8											250	251.8	302
MECH PH	10,450	0.20	2.1												2.1	2
MECH LOADS	10,100	0.20														_
STAIR PRESSURIZATION FANS							2	15	35.0						35.0	42
CORRIDOR EXHAUSTS FAN							1	5	6.3						6.3	7
TRASH ROOM EXHAUST							1	3	4.0						4.0	4
RESIDENTIAL EXHAUST							12	3	48.0						48.0	57
HVAC COOLING LOAD FOR ELEVATOR, FIRE PUMP							12	3	70.0						+0.0	- 51
ROOM, ETC. (40 TONS OF COOLING)														80	80.0	96
ELEVATORS							7	100	721.7					- 00	721.7	868
ELEVATORS							3	40	129.6						129.6	155
INDOOR AMENITY SPACES	35,001	0.20	7.0												7.0	8
	00,00.	0.20	7.0												7.0	-
OUTDOOR COMMON OPEN SPACE	38,973	0.20	7.8												7.8	9
INDOOR COMMON OPEN SPACE	20,791	0.20	4.2												4.2	5
PARKING GARAGE	378,512	0.20	75.7												75.7	91
SUMP PUMPS							2	5	12.6						12.6	15
SEWAGE EJECTOR							2	10	23.2						23.2	27
PARKING EXHAUST FANS							10	40	432.0						432.0	519
PARKING SUPPLY FANS							10	40	432.0						432.0	519
LADWP VAULT							2	10	23.2						23.2	27
FIRE PUMPS (2) 200HP							2	200	398.0						398.0	478
SITE AREA	83,792	0.20	16.8					200	550.0						16.8	20
VIII ANEA	00,192	0.20	10.0												10.0	20
CONN. KVA TOTALS>			118						2,498					480	3,096	3,72
oo				1			ALL	@ 100%:	2, .50					DEMAND	0,000	3,72
				1ST 10K	VA@100%:			ARGEST			TOTAL kVA			FACTOR		
CODE DEMAND		OTAL kVA:	118.2	REMA	AIN @ 50%:		MOTO	OR x 25%:	1.0	+ 2	25% CONT. LOAD)		100%		
FACTORS>		ONT. LOAD	29.6				<u></u>									
	A TOTALS		148						2,499					480	3,126	3,76
	ACITY		25%			25%			25%			25%	25%			
TOTAL D	ESIGN KVA	LOAD>	185	J			J		3,123					600	3,908	4,70
	4 400 2 : 5	loo ==												• -		
VA. / SQ.FT>	1,136,945	SQ.FT.	0.2	0771	\/E145				2.7				1	0.5	3.4	
				QTY	XFMR.		O.L.		FAN		MAX.	MAX. AMPS.			į	0006
USE ??? AMP SWITCHBOARD				1	SIZE		RATING 100%		COOLING 100%	=	#VALUE!	#VALUE!				80%
USE ??? AMP FEEDER						^	100 /0	^	100 /0		#VALUE!	#VALUE!	1		480\	/ 3D.
USE ??? AMP FEEDER USE ??? KAIC RATING															460\	, JI
OOL I NAIO NATING																