

3.13 TRANSPORTATION AND TRAFFIC

This analysis evaluates the potential environmental effects of the proposed Strand and Pier Hotel Project (Project) on transportation and traffic as defined by the California Environmental Quality Act (CEQA), as well as by the City of Hermosa Beach's (City's) regulations and policies including the Hermosa Beach Municipal Code (HBMC) and PLAN Hermosa. This analysis was prepared based on the *Strand & Pier Hotel Traffic Study* (Traffic Study) prepared by The Mobility Group (2017) (see Appendix I) and independently peer reviewed by the transportation consulting firm Fehr & Peers. The Traffic Study contains a detailed assessment of local traffic circulation issues, with a particular focus on potential Project-related increases in congestion at intersections and along roadway segments in the Downtown Core. Impacts to pedestrian, transit, and bicycle use that could result from construction and operation of the proposed Project have also been assessed and included in this Environmental Impact Report (EIR) analysis. Because of the importance of parking availability to local coastal access and recreation, parking impacts have also assessed in detail in Section 3.3, *Recreation*.

The scope and methodology of the Traffic Study conforms to standards set forth in adopted City guidelines published by the City. The Traffic Study also incorporates analysis from and builds upon PLAN Hermosa and the associated Program EIR. The roadways and intersections included in the Traffic Study were identified jointly by The Mobility Group and City staff based on the location and magnitudes of Project-related trip generation and the potential for new trips to intersections and roadway segments in the Project area. Previous area circulation studies were considered and care was taken to ensure that all potentially affected facilities were included in the analysis. The study area encompasses 15 intersections and generally extends from Pacific Coast Highway (PCH) on the east, Hermosa Avenue on the west, 16th Street on the north, and 8th Street on the south. In addition, the study area includes pedestrian, transit, and bicycle facilities along The Strand, Pier Plaza, and Hermosa Avenue.

3.13.1 Existing Setting

Regional Access and City Street Network

Regional vehicle access to the City is provided by Interstate 405 (I-405), located approximately 3 miles east of the City limits, as well as PCH, which provides a connection between Manhattan Beach, El Segundo, and the Los Angeles International Airport (LAX) to the north, and Redondo Beach and the South Bay to the south (refer to Figure 1-1).

1 The Project site is accessed by two principal streets, Pier Avenue running from PCH east toward
2 the coast, and Hermosa Avenue which runs from north to south parallel to the coast. West of
3 Hermosa Avenue and near the Project site, Pier Avenue becomes Pier Plaza, a 100-foot-wide
4 pedestrian-only plaza that is lined with commercial uses, particularly restaurants and retail shops.
5 Pier Plaza and The Strand serve as the primary public gathering points in the Downtown Core and
6 the City as a whole (refer to Section 3.3, *Recreation*). Vehicular access to the Project site is
7 provided via Beach Drive as well as 13th Street and 13th Court, which are narrow east-west streets
8 and alleys that run toward the coast between Hermosa Avenue and Beach Drive (refer to
9 Figure 2-1).

10 The key streets in the vicinity of the Project site are described below:

- 11 • **PCH** – PCH is a State Highway and arterial roadway that runs in a north-south direction
12 through the City. PCH is controlled, operated, and maintained by the California
13 Department of Transportation (Caltrans). It is striped as a six-lane roadway but during off-
14 peak hours, parking is generally allowed in the outmost lane nearest to the curb, resulting
15 in two travel lanes in each direction. Parking is prohibited on the east side of the street
16 during the AM peak hour (7:00am to 9:00am) to provide a third northbound travel lane and
17 on the west side of the street during the PM peak hour (3:00pm to 7:00pm) to provide a
18 third southbound travel lane. Traffic flows along PCH in the City are affected by multiple
19 signalized intersections as well as frequent driveways which provide access to adjacent
20 residential and commercial uses. PCH has a traffic volume of 43,854 average daily trips
21 (ADT) between Artesia Boulevard and Aviation Boulevard (City of Hermosa Beach
22 2017d). Similar to Pier Avenue, PCH is a designated truck route in the City. In the vicinity
23 of the Project site, PCH has 6-foot-wide sidewalks on both sides of the street, interrupted
24 with street lights, utility poles and boxes, signs, trash receptacles, fire hydrants, and
25 bordered by landscaping such as palm trees.
- 26 • **Hermosa Avenue** – Hermosa Avenue is the principal roadway providing access to the
27 beach areas. It runs north-south two blocks east of the beach for the entire length of the
28 City. Hermosa Avenue is a four-lane arterial roadway with a median but generally without
29 left-turn lanes, except for a small segment between 10th Street and 14th Street. The majority
30 of intersections on Hermosa Avenue are two-way or four-way stops with pedestrian
31 crosswalks, with the exception of traffic signals located at the intersections of Pier Avenue,
32 13th Street, and 14th Street. Hermosa Avenue has a traffic volume of 11,128 ADT between
33 8th Street and 16th Street (City of Hermosa Beach 2017d). Metered curbside parallel parking
34 is provided along the entire length of the roadway and along the center median north of

1 14th Street and south of 10th Street (refer
 2 to Section 3.3, *Recreation* for a
 3 thorough discussion of publicly
 4 available coastal access parking). In the
 5 vicinity of the Project site, Hermosa
 6 Avenue has 6- to 8-foot-wide sidewalks
 7 on both sides of the street, interrupted
 8 with street lights, utility poles and
 9 boxes, signs, trash receptacles,
 10 mailboxes, fire hydrants, and street
 11 trees.



Pier Avenue is a north-south oriented street that is lined with restaurants and retail shops served by angled metered parking (pictured above). For additional information regarding parking along Pier Avenue, refer to Section 3.3, Recreation.

- 12 • **Pier Avenue** – Pier Avenue, east of
 13 Hermosa Avenue, is a four-lane arterial
 14 roadway that runs in an east-west

15 direction and connects Hermosa Avenue to PCH. It is the principal roadway and City
 16 designated truck route that runs through the central commercial district and provides access
 17 to/from the Downtown Core. Pier Avenue has a traffic volume of 13,352 ADT between
 18 Hermosa Avenue and Valley Drive (City of Hermosa Beach 2017d). Between Hermosa
 19 Avenue and Valley Drive, Pier Avenue has angled parking on both sides of the street. East
 20 of Ardmore Avenue to PCH, there is a painted median and parallel parking. Sidewalks in
 21 this area are 8- to 10-feet wide on both sides of the street, interrupted with street lights,
 22 utility poles and boxes, signs, trash
 23 receptacles, fire hydrants, and palm
 24 trees. West of Hermosa Avenue, Pier
 25 Avenue is a Walk Street¹ (Pier Plaza)
 26 and is closed to traffic. Pier Plaza is lined
 27 with seating areas, palm trees and street
 28 furniture.



Ardmore Avenue runs in a north-south direction and parallels Valley Drive. The Hermosa Valley Greenbelt is located between these streets and provides a walking/jogging path that is lined with trees and other landscaping.

- 29 • **Valley Drive/Ardmore Avenue** –
 30 Valley Drive/Ardmore Avenue run in a
 31 north-south direction west of PCH. They
 32 each generally provide one lane in each
 33 direction, with parallel parking allowed

¹ Walk Streets provide pedestrian access only with no vehicular access.

1 only in certain locations. The Hermosa Valley Greenbelt – a 3.5-mile segment of trail
2 through the cities of Hermosa Beach and Manhattan Beach – separates the two arterial
3 roadways. This greenbelt also interrupts the City’s street grid, which tends to funnel traffic
4 onto relatively few east-west roadways (e.g., Gould Avenue and Pier Avenue). Valley
5 Drive has a traffic volume of 6,509 ADT between Pier Avenue and 8th Street, and Ardmore
6 Avenue has a traffic volume of 4,226 ADT between 16th Street and 11th Street (City of
7 Hermosa Beach 2017d). In the vicinity of the Project site, Valley Drive/Ardmore Avenue
8 have 6-foot-wide sidewalks along the opposite sides of the streets from the greenbelt. In
9 addition to landscaping and pedestrian trails, some pedestrian amenities in the greenbelt
10 include exercise equipment and water fountains.

- 11 • **8th Street** – 8th Street is an east-west arterial street between Hermosa Avenue and PCH. It
12 has one lane in each direction and generally provides metered parking, except for certain
13 areas between Ardmore Avenue and Loma Drive where parking is not allowed on one or
14 both sides of the street. From Hermosa Avenue to Valley Drive, 8th Street has a traffic
15 volume of 2,616 ADT (City of Hermosa Beach 2017d). In the vicinity of the Project site,
16 8th Street has 6-foot-wide sidewalks on both sides of the street, interrupted with utility
17 poles, signs, and parking meters, bordered by landscaping and palm trees.

18 Other Local Streets² in the immediate vicinity of the
19 Project site are as follows:

- 20 • **Beach Drive** – Beach Drive is a 20-foot-wide, two-
21 way local street that runs north-south between 14th
22 Street and Pier Avenue, one block east of The
23 Strand. Because Pier Avenue is a pedestrian-only
24 street (i.e., Pier Plaza) west of Hermosa Avenue
25 and is closed to traffic, Beach Drive carries little
26 vehicular traffic between 13th Street and Pier Plaza.
27 However, Beach Drive, provides access to
28 13th Street and 13th Court, which provide access to
29 City-owned parking Lot B (Lot B) and City-owned
30 parking Lot C (Lot C). Beach Drive also provides
31 access to the existing surface parking lot associated
32 with the Mermaid Restaurant. It also provides an
33 informal pedestrian and bicycle route parallel to

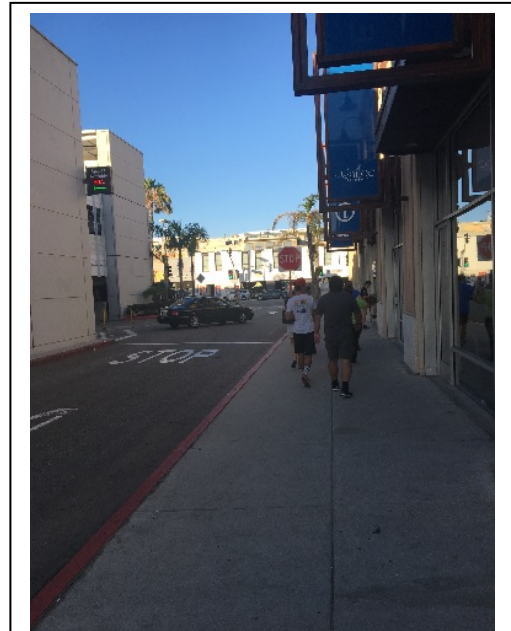


² Designed to serve adjacent residential land uses only and provide the lowest accommodation for traffic movement.

1 The Strand, which receives moderate levels of use during periods of congestion on The
 2 Strand, particularly for bicyclists circumventing the “walk-only” portion of The Strand.
 3 Beach Drive does not have sidewalks or other pedestrian features and stop signs are located
 4 at the intersections of 13th Street and 14th Street. The southernmost 200 feet of Beach Drive
 5 traverses the Project site and would be vacated and closed as part of the proposed Project
 6 (refer to Section 2.0, *Project Description*).

- 7 • **13th Court** – 13th Court is an east-west, 20-foot-wide, one-way alley providing vehicular
 8 access to the rear of the Project site from Hermosa Avenue where it would terminate at the
 9 proposed eastern end of the mixed-used hotel building. It is narrow and without on-street
 10 parking. Access to 13th Court from Hermosa Avenue is right-in/right-out-only at an
 11 unsignalized intersection. There are no sidewalks or other pedestrian features along the
 12 alleyway.

- 13 • **13th Street** – 13th Street is a single-lane, 12-foot-
 14 wide, one-way eastbound street from Beach Drive
 15 to the stop sign just west of Lot C. This segment
 16 of 13th Street provides access to Lot B. From east
 17 of the stop sign, 13th Street is a two-way street to
 18 Hermosa Avenue. Its intersection with Hermosa
 19 Avenue is signalized with all movements allowed.
 20 13th Street provides eastbound access to Lot C,
 21 which is heavily utilized, particularly during
 22 weekends and the summer months (refer to
 23 Section 3.3, *Recreation* for a description of
 24 parking utilization). An approximately 7-foot-
 25 wide sidewalk runs along the south side of 13th
 26 Street. A landing at the corner of 13th Street and
 27 Beach Drive allows pedestrian access to Lot C,
 28 and a stop sign is located at the vehicular entrance
 29 of the parking structure.



13th Street is a one-way east bound street from Beach Drive to the stop sign immediately west of Lot C. 13th Street includes a sidewalk used by pedestrians to access Hermosa Avenue.

- 30 • **14th Street** – 14th Street is an east-west, two-way local street between Beach Drive and
 31 Hermosa Avenue. Its intersection with Hermosa Avenue is signalized with all movements
 32 allowed. It has metered parking on both sides. There are 6-foot-wide sidewalks on both
 33 sides of the street, interrupted with street lights/utility poles, parking meters, and some
 34 palm trees.



Existing Bus Routes and Bicycle Facilities

FIGURE 3.13-1

1 Public Transit Services in the Vicinity of the Project Site

2 Local and regional public transit in the Project area is provided by
 3 the Los Angeles County Metropolitan Transportation Authority
 4 (Metro), Los Angeles Department of Transportation (LADOT), and
 5 Beach Cities Transit. Bus stops are located on Hermosa Avenue
 6 approximately 500 feet east of the Project site between Pier Avenue
 7 and 13th Court and 700 feet south of the Project site between
 8 11th Court and 11th Street for southbound travel, and approximately
 9 1,000 feet north of the Project site just south of 16th Street and 1,000
 10 feet south of the Project site, just south of 10th Street for northbound
 11 travel. As discussed below, commuter-oriented transit service
 12 within the Project vicinity is frequent during weekday peak hours;
 13 however, commuter services cease on weekends and local transit
 14 service is relatively infrequent, leaving area employees and other
 15 users with limited weekend commuter transit options (see Table
 16 3.13-1 and Figure 3.13-1).



Hermosa Avenue is served by multiple transit routes included the LADOT Commuter Express Service 438 runs between Redondo Beach and Downtown Los Angeles.

17 **Table 3.13-1. Existing Public Transit Services**

Route	Line	Description	Weekday Hours of Operation	Weekend Hours of Operation	Approximate Headway ¹ (minutes)				
					Weekday AM	Weekday PM	Friday 5-9pm	Saturday 12-3pm	Sunday 3-6pm
Metro Local	130	Redondo Beach – Cerritos	5:20am – 9:30pm	6:20am – 10:10pm	40	45	55	60	60
Metro Line	232	Long Beach – LAX	3:48am – 11:24pm	5:25am – 1:01am	30	60	60	60	60
Beach Cities Transit	109	Redondo Beach – LAX City Bus Center	6:20pm – 9:30pm	6:20am – 10:00pm	45	45	60	90	60
LADOT – Commuter	438	Redondo Beach – Downtown LA (AM to Downtown LA only; PM to Redondo Beach only)	6:00am – 7:20pm	-	15	10	10	-	-

18 Note: ¹ Headways are generally defined as the time period between vehicles in a transit system or frequency of service.
 19 Source: The Mobility Group 2017.

1 **Metro Local 130** – Metro Line 130 runs predominantly in an east-west direction from Redondo
2 Beach to Artesia. In the Project vicinity, it runs along Hermosa Avenue and Pier Avenue, with
3 stops at Hermosa and 10th Street (northbound) approximately 1,000 feet south of the Project site,
4 Hermosa and 11th Street (southbound) approximately 700 feet south of the Project site, and Pier
5 Avenue and Valley Drive approximately 2,000 feet east of the Project site. On weekdays, the
6 service operates between 5:20am and 9:30pm, with a headway of approximately 40 minutes in the
7 AM peak hour and 45 minutes in the PM peak hour.³ During the weekend, the service operates
8 between 6:20am and 10:10pm with headway of approximately 60 minutes in the Saturday midday
9 and Sunday afternoon peak hours.

10 **Metro Line 232** – Metro Line 232 runs from Long Beach to Los Angeles International Airport. In
11 the Project vicinity, it runs along PCH, east of the Project site (see Figure 1-1). On weekdays, the
12 service operates between 3:48am and 11:24pm, with a headway of approximately 30 minutes in
13 the AM peak hour and 60 minutes in the PM peak hour. During the weekend, the service operates
14 between 3:48am and 1:01am with headway of approximately 60 minutes in the Saturday midday
15 and Sunday afternoon peak hours.

16 **Beach Cities Transit** – Service 109 provides access north and south of the Project site between
17 the Los Angeles Airport City Bus Center and Redondo Beach. In the Project vicinity, it runs along
18 Hermosa Avenue, with northbound stops at Hermosa Avenue and 8th Street (approximately 1,300
19 feet south of the Project site), 10th Street (approximately 1,000 feet south of the Project site), and
20 16th Street (approximately 1,000 feet north of the Project site), and southbound stops at Hermosa
21 Avenue and 8th Street, 11th Street (approximately 700 feet south of the Project site), and 16th Street.
22 On weekdays, the service operates between 6:20am and 9:30pm with approximately 45-minute
23 headways in the AM and PM peak hours. During the weekend, the service operates between
24 6:20am and 10:00pm with headway of approximately 60 minutes.

25 **LADOT** – LADOT Commuter Express Service 438 runs between Redondo Beach and Downtown
26 Los Angeles. In the Project vicinity, it runs along Hermosa Avenue, with northbound stops at
27 Hermosa Avenue and 10th Street and 16th Street, and southbound stops at Hermosa Avenue and
28 11th Street and 16th Street. Service operates on weekdays between 5:45am and 9:00am and between
29 3:45pm and 7:30pm, with approximately 15-minute headways in the AM peak hour and 10-minute
30 headways in the PM peak hour.

³ Headway is defined as the time between each individual bus arriving at a given point.

Pedestrian and Bicycle Facilities in the Project Vicinity

Pedestrian Facilities

The street grid in the Downtown Core – which consists of small street blocks, relatively dense land uses, The Strand, local alleys, and low posted speed limits surrounding the Project site – is geared toward pedestrian accessibility and serves high pedestrian volumes, particularly during weekends and the summer months. Numerous City “Walk Streets” provide safe pedestrian connections between Downtown and the beach, while walking paths on the Hermosa Valley Greenbelt provide north-south pedestrian connections further inland from the beach. Directly adjacent to the Project site, The Strand provides a concrete pathway of up to 25-feet in width immediately adjacent to the beach. The segment of The Strand within the City is part of a larger regional trail that runs for approximately 22 miles from Will Rogers State Beach in Pacific Palisades to its southern terminus at Torrance Beach. The Strand is heavily used year-round by pedestrians, bicyclists, skateboarders, and rollerbladers (see Table 3.13-2). Also located adjacent to the Project site is Pier Plaza, an approximately 100-foot-wide pedestrian-only thoroughfare between The Strand and Hermosa Avenue. The eastern end of Pier Plaza is characterized by restaurants and retail store fronts and is lined with outdoor seating areas, palm trees, and limited street furniture. At its western end, Pier Plaza leads out to the Hermosa Beach Pier (Hermosa Pier). At the intersection of Pier Avenue and Hermosa Avenue, a pedestrian scramble crossing provides pedestrian access across the intersection with Pier Plaza. (The pedestrian scramble provides an all-red signal phase to vehicles to allow pedestrians to cross the intersection diagonally as well as on the regular crosswalks at the same time.)

Within the Downtown, sidewalks are generally in good condition, free of cracks, fissures, or uplift; however, outside of the Downtown, there are locations with obstructions in the sidewalk space (e.g., utility boxes, light poles, missing curb cuts) that pose an impediment to pedestrians, particularly those with disabilities. While pedestrian amenities in the Downtown are plentiful, other areas outside of the Downtown suffer from a lack of continuity. In particular, sidewalks are not continuous throughout the City. In



A scramble pedestrian crossing provides open pedestrian access across the intersection at Pier Avenue and Hermosa Avenue from all intersection corners.

1 some locations, sidewalks are present on both sides of the roadway, while in others – primarily on
2 local streets (e.g., Gould Avenue) – they are present on just one side or not at all. Other factors
3 that can affect walkability and the pedestrian experience in the City include minimal shading or
4 trees, grade changes, or lack of buffers from vehicles. The City has abundant vegetation that
5 provides a visually attractive streetscape and some canopies; however, ample shade is not a
6 prevalent street feature. With regard to sidewalk grade, north-south streets are generally flat;
7 however, east-west streets slope upward as they move away from the coast. And while buffered
8 space is common throughout the City – commonly provided though pedestrian-only streets, off-
9 street pedestrian paths, and curbside parking – there are some locations that could benefit from
10 wider sidewalks, sidewalk bulb-outs, and signage.

11 Sidewalks immediately adjacent to the Project site include an approximately 7-foot-wide sidewalk
12 on the south side of 13th Street, as well as a walkway along the perimeter of the Lot C parking
13 structure on the east side of Beach Drive. There are pedestrian crosswalks along Hermosa Avenue,
14 at 13th, 14th, and 16th Streets to the north, and 11th, 10th, and 8th Streets to the south. The sidewalks
15 have street lighting, signage, and limited pedestrian furniture (e.g., street benches).

16 *Bicycle Facilities*

17 Formal developed bicycle facilities in the Project vicinity are limited to The Strand, a multi-use
18 pedestrian and bicycle trail, and a Class III Bicycle Route (with “sharrow” markings on the
19 roadway surface)⁴ along Hermosa Avenue and further east along Monterey Boulevard (refer to
20 Figure 3.13-1). However, many of the streets within the City, particularly those west of Hermosa
21 Avenue, are used by bicyclists in lieu of bicycle routes. Except for Pier Avenue and Hermosa
22 Avenue, roads in the Project vicinity generally carry relatively low traffic volumes, and bicyclists
23 mix freely with vehicular traffic. This is particularly common along the east-west oriented streets
24 that provide beach access (e.g., 13th Street). The Project site currently includes a bicycle rental
25 shop, Hermosa Cyclery, which provides rentals, repairs/services, and bicycles and related products
26 for sale. Bicycle parking areas are provided along The Strand, in Pier Plaza between The Strand
27 and Hermosa Avenue, and throughout the Downtown. Additional formal bicycle facilities –
28 including Class I, II, and III bicycle lanes and bicycle friendly streets – are planned by the City on
29 Valley Drive/Ardmore Avenue, Prospect Avenue, Longfellow Avenue, 27th Street, 21st Street, Pier
30 Avenue, Aviation Boulevard, and 8th Street (City of Hermosa Beach 2017c).

⁴ Class III Bicycle Route are designated on-street routes that do not have stripped separation from traffic, but have pavement markings or signs indicating a bicycle route and instructing motorists to share the road.

1 Existing Pedestrian and Bicycle Traffic Volumes

2 There is considerable pedestrian and bicycle
 3 activity in the Downtown, including the areas in
 4 the immediate Project vicinity. Counts taken in
 5 August 2015 show that pedestrian volumes on
 6 The Strand adjacent to the proposed Project site
 7 range from approximately 325 pedestrians in the
 8 AM peak hour (7:00am to 9:00am) and PM peak
 9 hour (4:00pm – 6:00pm) to 1,515 pedestrians in
 10 the Sunday afternoon peak hour (3:00pm –
 11 6:00pm) (see Table 3.13-2). The counts also show
 12 pedestrian volumes in Pier Plaza adjacent to the



The Strand is heavily used by pedestrians, bicyclists, skateboarders, and rollerbladers, particularly during the summer months.

13 Project site range from approximately 250 pedestrians in the AM peak hour to 2,815 pedestrians
 14 in the Sunday PM peak hour. Pedestrian volumes on The Strand and Pier Plaza are also high during
 15 the Saturday midday peak hour (12:00pm – 3:00pm) with approximately 1,500 to 1,600
 16 pedestrians during this time period. Pedestrian volumes on Hermosa Avenue north of Pier Avenue
 17 range from 50 pedestrians in the AM peak hour to 505 pedestrians in the Sunday afternoon peak
 18 hour. Counts taken in August 2015 show that bicycle volumes on The Strand adjacent to the
 19 proposed Project range from 160 bicycles during the AM weekday peak hour to as many as 295
 20 bicycles per hour on the weekend peak hours. The counts also show bicycle volumes in Pier Plaza
 21 adjacent to the Project site ranging from 45 bicycles in the weekday AM peak hour to as many as
 22 150 bicycles per hour on the weekend peak hours.

23 These representative pedestrian and bicyclist counts within the City's Downtown Core reflect the
 24 area's orientation toward commercial retail, entertainment, and recreational uses, where roadways
 25 are intended to prioritize large volumes of pedestrians and bicyclists. These high volumes of
 26 pedestrians and bicyclists can affect vehicular delays at some intersections, particularly the
 27 signalized intersection of Hermosa Avenue & Pier Avenue, where a pedestrian scramble provides
 28 a phase for prioritized pedestrian crossings from all corners of the intersection. While high
 29 pedestrian volumes at this pedestrian scramble can increase vehicular delays, this reflects the
 30 City's policy priorities in PLAN Hermosa for the pedestrian orientation of the Downtown Core.

1 **Table 3.13-2. Pedestrian and Bicycle Peak-Hour Traffic in the Immediate Project Vicinity**

Location	Peak Hour	Pedestrian Count (2015)	Bicycle Count (2015)
The Strand (adjacent to Project site)	AM	325	160
	PM	325	250
	FRI	560	up to 295/hr
	SAT	915	up to 295/hr
	SUN	1,515	up to 295/hr
Pier Avenue (Pier Plaza adjacent to Project site)	AM	250	45
	PM	615	105
	FRI	1,500	up to 150/hr
	SAT	1,630	up to 295/hr
	SUN	2,815	up to 295/hr
Hermosa Avenue (north of Pier Avenue)	AM	50	-
	PM	150	-
	FRI	380	-
	SAT	380	-
	SUN	505	-

2 Source: The Mobility Group 2017.

3 Study Intersections and Traffic Volumes

4 Because traffic flow on urban arterials is most constrained at intersections, detailed traffic flow
5 analyses focus on operating conditions of critical intersections during peak travel periods. The
6 Traffic Study examined 15 intersections in the Project vicinity, selected by The Mobility Group in
7 consultation with the City staff and independently verified by Fehr & Peers. These intersections
8 were identified as locations where the majority of trips associated with the Project would be
9 focused, based on the Project's anticipated distribution of trips. These locations consist of the
10 intersections through which the majority Project trips would travel before dispersing and,
11 therefore, were the locations where potential traffic impacts were most likely to occur. All of the
12 intersections are within the City, including those along PCH, which is under the jurisdiction of
13 Caltrans. Seven of the study intersections examined in the Traffic Study are signalized and eight
14 are unsignalized (see Figure 3.13-2).

15 New traffic count data was collected for the analysis of all study intersections. In order to
16 conservatively address the highest traffic volume periods of summer, and to also address the peak
17 weekday and weekend time periods, the traffic counts were collected during the peak summer
18 season for five different time periods. These time periods were determined to be the peak periods
19 of highest traffic volumes from 24-hour roadway volume counts conducted for a 7-day period

1 during the summer period prior to conducting the intersection counts. Weekday peak hour traffic
2 counts were conducted on Thursday August 27, 2015. Traffic counts were also conducted for the
3 Friday PM peak hour on Friday August 21, 2015, for the Saturday midday peak hour on Saturday
4 August 22, 2015, and for the Sunday afternoon peak hour on Sunday August 23, 2015. Schools in
5 the Hermosa Beach area end in mid-June. In most cities, traffic is greatest during the months when
6 schools are in session; however, in Hermosa Beach, traffic is greatest during the summer months,
7 when residents and visitors in the Los Angeles area drive to Hermosa Beach to access the coast.

8 In order to represent the existing conditions at the time of the Notice of Preparation (NOP)
9 publication, per CEQA Section 15125, the traffic volume counts that were collected in 2015 were
10 factored upward by 1 percent to represent 2016 conditions.⁵ The highest volume hours within each
11 period, were typically the following:

- 12 • Weekday AM peak hour (7:45am to 8:45am)
- 13 • Weekday PM peak hour (5:00pm to 6:00pm)
- 14 • Friday PM peak hour (5:15pm to 6:15pm)
- 15 • Saturday midday peak hour (1:45pm to 2:45pm)
- 16 • Sunday afternoon peak hour (3:30pm to 4:30pm)

17 Existing peak hour traffic volumes are provided in the Traffic Study (see Appendix I). It should
18 be noted that the Project site is located in the developed area of the Downtown Core, which is
19 already built out with limited traffic growth. No significant new developments have been
20 constructed in the immediate vicinity that would result in substantial changes to the existing traffic
21 between the NOP year and 2018 (refer to Section 3.02, *Cumulative Impacts*).

⁵ An evaluation of growth projections from the Los Angeles County Congestion Management Program for Regional Statistical Area 18 (which includes Hermosa Beach) showed an annual growth forecast of 0.25 percent per year between 2015 and 2020. The use of a 1 percent per year growth factor is therefore conservative.



Study Intersections and Existing LOS

FIGURE 3.13-2

1 Level of Service

2 Intersection operation and congestion can be described by measuring the level of service (LOS) of
 3 an intersection. LOS is a qualitative method for characterizing the operational conditions at an
 4 intersection generally accounting for measures such as speed, delays, travel time, freedom to
 5 maneuver, traffic interruptions, and comfort and convenience. In rating intersection operations,
 6 LOS A through F are used, with LOS A indicating free-flow operations and LOS F indicating
 7 congested operations. The LOS analysis was conducted using the methodology established by the
 8 City, described below. All signalized intersections were analyzed using the Intersection Capacity
 9 Utilization (ICU) methodology. Unsignalized intersections were analyzed using the *Highway*
 10 *Capacity Manual* (HCM) 2010 methodology.

11 The ICU method applied to the signalized intersections compares the peak hour volume of traffic
 12 at an intersection to the traffic volume the intersection is able to carry under ideal conditions (i.e.,
 13 the capacity), and defines a volume-to-capacity (V/C) ratio for the intersection as a whole, which
 14 is then related to LOS (see Table 3.13-3).

15 **Table 3.13-3. Level of Service Criteria for Signalized Intersections**

LOS	Interpretation	V/C Ratio	Delay (Seconds/ Vehicle)
A	Excellent operation. All approaches to the intersection appear quite open, turning movements are easily made, and nearly all drivers find freedom of operation.	<0.600	≤ 10
B	Very good operation. Many drivers begin to feel somewhat restricted within platoons of vehicles. This represents stable flow. An approach to an intersection may occasionally be fully utilized and traffic queues start to form.	0.601 - 0.700	> 10 – 20
C	Good operation. Occasionally drivers may have to wait for more than 60 seconds, and backups may develop behind turning vehicles. Most drivers feel somewhat restricted.	0.701 - 0.800	> 20 – 35
D	Fair operation. Cars are sometimes required to wait for more than 60 seconds during short peaks. There are no long-standing traffic queues. This level is typically associated with design practice for peak periods.	0.801 - 0.900	> 35 – 55
E	Poor operation. Some long-standing vehicular queues develop on critical approaches to intersections. Delays may be up to several minutes.	0.901 - 1.000	> 55 – 80
F	Forced flow. Represents jammed conditions. Backups from locations downstream or on the cross street may restrict or prevent movement of vehicles out of the intersections approach lanes; therefore, volumes carried are not predictable. Potential for stop-and-go type traffic flow.	Over 1.000	> 80

16 Source: The Mobility Group 2017.

1 For the HCM analysis methodology for unsignalized intersections, LOS is defined instead by the
 2 average delay in seconds per vehicle occurring at the intersection. In contrast to signalized
 3 intersections, where all approaches to the intersection must stop at a red light and wait for the next
 4 green light, at stop-controlled intersections only the minor street traffic controlled by the stop sign
 5 is required to stop (at two-way stop intersections). Through traffic movements on the major street
 6 do not stop, and turning movements from the major street must stop only if there is conflicting
 7 traffic approaching in the opposite direction. At all-way stop intersections, all approaches must
 8 stop. Table 3.13-4 defines the ranges of delay and their corresponding LOS for unsignalized
 9 intersections. For unsignalized intersections these parameters are reported for the minor
 10 movements only and not for the major street through moves or for the intersection as a whole.

11 **Table 3.13-4. Level of Service Criteria for Unsignalized Intersections**

LOS	Average Control Delay (Seconds/Vehicle)
A	0 to 10
B	> 10 to 15
C	> 15 – 25
D	> 25 – 35
E	> 35 – 50
F	> 50

12 Source: The Mobility Group 2017.

13 Existing V/C ratios and corresponding LOS at the analyzed intersections for all time periods are
 14 summarized in Table 3.13-5. Study intersection LOS is shown in Figure 3.13-2. Of the
 15 15 intersections studied, 14 operate at excellent or fair LOS (i.e., LOS A through D) while only 1
 16 (PCH & Aviation Boulevard) has a LOS that is currently ranked as “poor” or “failure” during at
 17 least one of the peak hours examined in the study (i.e., LOS E during the AM peak hour). As noted
 18 above, the signalized intersection of Hermosa Avenue & Pier Avenue operates at LOS D on
 19 Sundays reflecting its design with a pedestrian scramble that places equal priority on serving
 20 pedestrians, bicyclists and vehicles, consistent with the commercial retail, entertainment, and
 21 recreational orientation of the Downtown Core.

1 Table 3.13-5. Existing (2016) Intersection Levels of Service

Number	Intersection	Type ¹	Peak Hour Period	Existing (2016) Operating Conditions		
				V/C	Delay	LOS
1	Hermosa Avenue & 16 th Street	3-Way Stop	AM	-	8.8	A
			PM	-	9.5	A
			FRI	-	9.4	A
			SAT	-	9.1	A
			SUN	-	10.5	B
2	Hermosa Avenue & 14 th Street	Signalized	AM	0.255	-	A
			PM	0.314	-	A
			FRI	0.316	-	A
			SAT	0.281	-	A
			SUN	0.439	-	A
3	Hermosa Avenue & 13 th Street	Signalized	AM	0.237	-	A
			PM	0.383	-	A
			FRI	0.376	-	A
			SAT	0.405	-	A
			SUN	0.431	-	A
4	Hermosa Avenue & Pier Avenue	Signalized	AM	0.621	-	B
			PM	0.682	-	B
			FRI	0.668	-	B
			SAT	0.689	-	B
			SUN	0.832	-	D
5	Hermosa Avenue & 11 th Street	Signalized	AM	0.282	-	A
			PM	0.465	-	A
			FRI	0.370	-	A
			SAT	0.461	-	A
			SUN	0.398	-	A
6	Hermosa Avenue & 10 th Street	4-Way Stop	AM	-	9.7	A
			PM	-	10.0	A
			FRI	-	10.3	B
			SAT	-	9.6	A
			SUN	-	13.9	B
7	Hermosa Avenue & 8 th Street	3-Way Stop	AM	-	10.0	A
			PM	-	10.2	B
			FRI	-	10.1	B
			SAT	-	10.0	A
			SUN	-	13.2	B

Table 3.13-5. Existing (2016) Intersection Levels of Service (Continued)

Number	Intersection	Type ¹	Peak Hour Period	Existing (2016) Operating Conditions		
				V/C	Delay	LOS
8	Manhattan Avenue West & Pier Avenue	1-Way Stop	AM	-	9.5	A
			PM	-	9.8	A
			FRI	-	10.2	B
			SAT	-	10.9	B
			SUN	-	12.5	B
9	Manhattan Avenue East & Pier Avenue	1-Way Stop	AM	-	11.5	B
			PM	-	12.9	B
			FRI	-	12.7	B
			SAT	-	13.8	B
			SUN	-	23.1	C
10	Monterey Boulevard & Pier Avenue	4-Way Stop	AM	-	9.4	A
			PM	-	10.3	B
			FRI	-	11.1	B
			SAT	-	10.9	B
			SUN	-	15.8	C
11	Valley Drive & Pier Avenue	4-Way Stop	AM	-	13.7	B
			PM	-	19.2	C
			FRI	-	19.5	C
			SAT	-	17.0	C
			SUN	-	13.6	B
12	Ardmore Avenue West & Pier Avenue	4-Way Stop	AM	-	14.3	B
			PM	-	18.5	C
			FRI	-	17.0	C
			SAT	-	14.4	B
			SUN	-	12.3	B
13	PCH & Pier Avenue	Signalized	AM	0.657	-	B
			PM	0.700	-	B
			FRI	0.699	-	B
			SAT	0.574	-	A
			SUN	05.83	-	A
14	PCH & Aviation Boulevard	Signalized	AM	0.952	-	E
			PM	0.820	-	D
			FRI	0.823	-	D
			SAT	0.821	-	D
			SUN	0.765	-	C

Table 3.13-5. Existing (2016) Intersection Levels of Service (Continued)

Number	Intersection	Type ¹	Peak Hour Period	Existing (2016) Operating Conditions		
				V/C	Delay	LOS
15	PCH & 8 th Street	Signalized	AM	0.845	-	D
			PM	0.758	-	C
			FRI	0.793	-	C
			SAT	0.617	-	B
			SUN	0.591	-	A

1 Definitions:

2 V/C – Volume-to-Capacity Ratio; based on the amount of traffic traveling through the intersection, the lane geometries, and
 3 other factors affecting capacity such as one-street parking, bus operations near the intersections, and pedestrian
 4 volumes at the street crosswalks.

5 Delay – Average stopped delay per vehicle, in seconds.

6 LOS – Level of Service; refer to definitions in Tables 3.13-3 and 3.13-4.

7 Notes: ¹ For signalized intersections, V/C ratio and LOS are shown for the intersection as a whole. For unsignalized intersections,
 8 delay values and LOS are shown for worst-case minor (stopped) approach only.

9 Source: The Mobility Group 2017.

- 10 • **AM Peak Hour** – All of the studied intersections currently operate at LOS D or better
 11 during the AM peak hour, except for the signalized intersection of PCH & Aviation
 12 Boulevard which operates at LOS E. All but two intersections operate at LOS B or better
 13 with many operating at LOS A.
- 14 • **PM Peak Hour** – All of the studied intersections currently operate at LOS D or better
 15 during the PM peak hour, with all but one intersection operating at LOS C or better, and
 16 with many operating at LOS A or LOS B.
- 17 • **Friday PM Peak Hour** – All of the studied intersections currently operate at LOS C or
 18 better during the Friday PM peak hour, except for the signalized intersection of PCH &
 19 Aviation Boulevard which operates at LOS D. Many of the intersections operate at LOS A
 20 or LOS B.
- 21 • **Saturday Midday Peak Hour** – All of the studied intersections currently operate at
 22 LOS D or better during the Saturday midday peak hour, with all but one intersection
 23 operating at LOS C or better, and with many operating at LOS A or LOS B.
- 24 • **Sunday Afternoon Peak Hour** – All of the studied intersections currently operate at
 25 LOS D or better during the Sunday afternoon peak hour, with all but one intersection
 26 operating at LOS C or better, and with many operating at LOS A or LOS B.

27 3.13.2 Regulatory Framework

28 Federal Regulations

29 *Americans with Disabilities Act of 1990*

30 Titles I, II, III, and V of the Americans with Disabilities Act (ADA) have been codified in Title 42
 31 of the U.S. Code (USC), beginning at Section 12101. Title III prohibits discrimination on the basis

1 of disability in places of public accommodation (i.e., businesses and non-profit agencies that serve
2 the public) and commercial facilities (i.e., other businesses). This regulation includes Appendix A
3 to Part 36, Standards for Accessible Design, which establishes minimum standards for ensuring
4 accessibility when designing and constructing a new facility or altering an existing facility.
5 Examples of key guidelines include detectable warning for pedestrians entering traffic where there
6 is no curb, a clear zone of 48 inches for the pedestrian travel way, and a vibration-free zone for
7 pedestrians.

8 State Regulations

9 *California Coastal Act*

10 The California Coastal Act (Coastal Act) of 1976 dictates certain policies related to shoreline
11 resources, including transportation issues related to State shorelines. While the Coastal Act does
12 not include a section specifically regarding transportation issues, it does state how development
13 must maintain access to coastal resources and maintain or distribute parking supply or adequate
14 public transportation to minimize adverse impacts. (Coastal access parking availability is
15 addressed in detail in Section 3.3, *Recreation*.)

16 *Parking Cash Out*

17 Parking Cash Out, Assembly Bill (AB) 2109 requires employers of 50 or more employees who
18 lease their parking and subsidize any part of their employee parking to offer their employees the
19 opportunity to give up their parking space and rideshare to work instead. In return for giving up
20 their parking space, the employer pays the employee the cost of the parking space.

21 *Global Warming Solutions Act of 2006*

22 With the passage of the Global Warming Solutions Act (AB 32), the State of California committed
23 itself to reducing statewide greenhouse gas (GHG) emissions to 1990 levels by 2020. The
24 California Air Resources Board (CARB) is coordinating the response to comply with AB 32.
25 PLAN Hermosa proactively incorporates strategies for integrated land use and transportation
26 planning that achieve per capita GHG reduction, vehicle miles traveled (VMT) reduction, and trip
27 reduction that would further the City's efforts to meet the State-wide policy intent of this
28 legislation (refer to Section 3.8, *Greenhouse Gas Emissions*).

29 *Senate Bill 375*

30 CARB adopted a Scoping Plan for AB 32, which included the approval of Senate Bill (SB) 375 as
31 the means for achieving regional transportation-related GHG targets. SB 375 provides guidance

1 on how curbing emissions from cars and light trucks can help the state comply with AB 32. SB
2 375 includes measures for to guide the adoption of targets to be met by each Metropolitan Planning
3 Organization (MPO) as well as measures requiring each MPO to create a Sustainable Communities
4 Strategy (SCS) and Regional Transportation Plan (RTP) that provides a plan for meeting regional
5 targets. SB 375 also requires that regional housing elements and transportation plans be
6 synchronized on 8-year schedules.

7 *Senate Bill 743*

8 To further the state’s commitment to the goals of SB 375, AB 32, and AB 1358, Governor Brown
9 signed SB 743 on September 27, 2013. SB 743 adds Chapter 2.7, *Modernization of Transportation*
10 *Analysis for Transit-Oriented Infill Projects*, to Division 13 (Section 21099) of the Public
11 Resources Code. Key provisions of SB 743, including reforming aesthetics and parking CEQA
12 analyses for urban infill projects and eliminating the measurement of automobile delay, or LOS,
13 as a metric that can be used for measuring traffic impacts would apply to the project site. Under
14 SB 743, the focus of transportation analysis will shift from driver delay to reduction of GHG
15 emissions, creation of multimodal networks, and promotion of a mix of land uses.

16 Specifically, SB 743 requires the Governor’s Office of Planning and Research (OPR) to amend
17 the State CEQA Guidelines to provide an alternative to LOS for evaluating transportation impacts.
18 Once the State CEQA Guidelines are amended to include those alternative criteria, auto delay will
19 no longer be considered a significant impact under CEQA. Particularly for areas served by transit,
20 those alternative criteria must “promote the reduction of GHG emissions, the development of
21 multimodal transportation networks, and a diversity of land uses” (Public Resources Code Section
22 21099[b][1]). Measurements of transportation impacts may include “vehicle miles traveled,
23 vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated.”
24 OPR also has discretion to develop alternative criteria for areas that are not served by transit, if
25 appropriate.

26 Pursuant to SB 743, OPR released *Proposed Updates to the CEQA Guidelines* in November 2017.
27 OPR’s proposed updates include VMT as the replacement metric for LOS in the context of CEQA.
28 While OPR emphasizes that a lead agency has the discretionary authority to establish thresholds
29 of significance, the *Draft of Updates* suggest criteria that indicate when a project may have a
30 significant, or less than significant, transportation impact on the environment. For instance, a
31 project that results in VMTs greater than the regional average for the land use type (e.g. residential,
32 employment, commercial) may indicate a significant impact. Alternatively, a project may have a
33 less than significant impact if it is located within 0.5 mile of an existing major transit stop, or
34 results in a net decrease in VMTs compared to existing conditions.

1 The Natural Resources Agency will soon begin the formal administrative rulemaking process
2 under the Administrative Procedure Act. That rulemaking process will entail additional public
3 review, and may lead to further revisions. After completing the rulemaking process, the Secretary
4 for the Natural Resources Agency may adopt the changes. Changes would only go into effect after
5 the Office of Administrative Law reviews and approves the changes. These changes are anticipated
6 to be fully in effect by January of 2020.

7 Regional Regulations

8 *Southern California Association of Governments (SCAG)*

9 SCAG is the designated MPO for six Southern California counties (i.e., Los Angeles, Ventura,
10 Orange, San Bernardino, Riverside, and Imperial), and is federally mandated to develop plans for
11 regional transportation, land use and growth management, hazardous waste management, and air
12 quality. The City is one of many jurisdictions comprising the SCAG.

13 To address regional planning issues, SCAG has several adopted strategies and plans to implement
14 California’s Sustainable Communities and Climate Protection Act (SB 375), and recommended
15 actions local jurisdictions can take to implement regional sustainability goals. The key principles
16 of these strategies include: locating new employment centers and neighborhoods near major transit
17 systems to reduce vehicle trips and peak congestion; creating mini-communities around transit
18 stations, with small businesses, housing and restaurants within walking distance to reduce
19 automobile travel; focusing future growth in urban centers and existing cities to reduce VMT and
20 preserve rural and other natural areas; and preserving established single-family neighborhoods and
21 existing natural and green spaces by accommodating new development with existing urbanized
22 areas and downtowns.

23 In April 2016, SCAG adopted the 2016-2040 RTP/SCS, which includes goals to increase mobility
24 and enhance sustainability for the region’s residents and visitors. SCAG’s 2016-2040 RTP/SCS
25 provides growth forecasts that are used in the development of air quality-related land use and
26 transportation control strategies by the SCAQMD. The RTP/SCS includes a strong commitment
27 to reducing GHG emissions from transportation sources and emphasizes the crucial linkages and
28 interrelationships between the economy, the regional transportation system, and land use.
29 Strategies for achieving goals of available, safe, sustainable, and affordable transportation include:
30 1) investing in bus, light rail, and heavy rail transit; passenger and high-speed rail; pedestrian and
31 bicycle transportation corridors; and infrastructure and transportation demand management (e.g.,
32 carpooling to reduce demand for individual transport); 2) encouraging public participation in the

1 planning processes; and 3) educating the public about available transportation methods available
2 in the region.

3 The RTP/SCS specifically encourages future growth to occur within existing high-quality transit
4 areas (HQTA), which are described as generally walkable transit districts or corridors that are
5 within 0.5 mile of a major transit stop or a transit corridor with 15-minute or less service frequency
6 during peak commute hours. The PCH corridor, located 0.5 miles east of the Project site, is
7 identified as such an HQTA, although Hermosa Avenue and the immediate Project vicinity are
8 not. The RTP/SCS approach to sustainably manage growth and transportation demand would
9 reduce the distance and barriers between new housing, jobs, and services and would reduce vehicle
10 travel and GHG emissions. Overall, the strategies and policies in the RTP/SCS are projected to
11 exceed the GHG emission-reduction targets set forth by the CARB under SB 375.

12 *Los Angeles County Metropolitan Transportation Authority*

13 The Long Range Transportation Plan (LRTP) for Los Angeles County, prepared by Metro, notes
14 that there is very limited ability to add capacity to regional highways and freeways over the next
15 25 years. Instead key efforts would focus on increasing the efficiency of the existing network and
16 encouraging greater reliance on carpooling and transit use.

17 *Los Angeles County Congestion Management Program*

18 Metro's Congestion Management Program (CMP) is a state-mandated program that was enacted
19 by the State Legislature with the passage of Proposition 111 in 1990. The CMP designates certain
20 freeway segments and arterial roadways as CMP facilities. Generally, it is intended to address the
21 impact of local growth on the regional transportation system.

22 *South Bay Cities Council of Governments*

23 The South Bay Cities Council of Governments (SBCCOG) is a joint powers authority of 16 cities
24 and the County of Los Angeles focused on addressing regional issues such as water/energy
25 efficiency, transportation/transit services, livable communities, climate action planning, and air
26 quality. The SBCCOG's South Bay Sustainable Integrated Land Use and Transportation Strategy
27 (July 2009) found that development-oriented transit would be more effective for built-out suburban
28 areas, such as Hermosa Beach, than new infrastructure which requires transit-oriented
29 development as recommended by SCAG. The report puts forth an alternate approach for
30 integrating land use and transportation, and includes directives for VMT reduction that relate to
31 land use planning at the local scale.

1 *South Bay Bicycle Master Plan*

2 South Bay Bicycle Master Plan (SBBMP) was funded by the Los Angeles County Department of
3 Health’s RENEW grant initiative in 2010 to facilitate more cycling and bicycle infrastructure in
4 seven participating cities in the South Bay region. The City adopted the SBBMP in 2011 and
5 proposes an additional 9.2 miles of bicycle facilities within the City that include connections with
6 other SBBMP facilities in Manhattan Beach and Redondo Beach. The plan prioritizes investments
7 in bicycle infrastructure and incorporates a comprehensive implementation program for the
8 planning of routes and facilities into the circulation network.

9 Local Regulations

10 *Hermosa Beach Downtown Core Revitalization Strategy*

11 The Downtown Core Revitalization Strategy is a comprehensive approach to increasing the vitality
12 of Downtown. The strategy requires public and private initiatives including capital improvement
13 projects, transportation, changes to parking and zoning, and parking requirements involving
14 private development.

15 *Living Streets Policy*

16 The goal of the City’s Living Streets Policy is to promote the health and mobility of all City
17 residents and visitors through provision of high quality pedestrian, bicycling, and transit access to
18 destinations across the city. The policy provides a checklist of procedures that evaluate street
19 projects through a comprehensive “sustainability” lens. It ensures that the various segments of the
20 community – not just vehicle drivers – are considered when determining how to use and improve
21 the public right-of-way.

22 *Sustainability Plan*

23 The City’s Sustainability Plan, adopted in June 2011, provides a plan of local actions that the City
24 and residents of Hermosa Beach can implement for a more sustainable future. Section 3 of the
25 City’s Sustainability Plan addresses transportation through policies and infrastructure
26 improvements that encourage bicycling, walking, and other alternative modes of transportation as
27 part of the City’s greenhouse gas emissions reduction goals and Complete Streets policy.

28 *Livability Plan*

29 The Beach Cities Livability Plan, fostered by the Healthways Blue Zones (Vitality City) Initiative,
30 focuses on how to improve livability and well-being in Hermosa Beach, Manhattan Beach, and
31 Redondo Beach through land use and transportation systems that better support active living. The

1 plan was adopted by each city and includes recommendations to: 1) develop a regional pedestrian
2 master plan; 2) adopt and implement the SBBMP; and 3) improve and enhance Safe Routes to
3 School programs.

4 *City of Hermosa Beach Coastal Land Use Plan*

5 The Coastal Land Use Plan (CLUP) addresses parking supply and protection in the Coastal Zone.
6 Policies under the CLUP require that access to coastal resources be accessible to all through the
7 implementation of various parking management strategies. Specific CLUP policies include a
8 prohibition against the elimination of existing on- or off-street parking within the Coastal Zone,
9 the control of congestion through the granting of preferential parking permits, and the separation
10 of short- and long-term parkers in the immediate area around the beach.

11 *City of Hermosa Beach Municipal Code*

12 The HBMC includes regulations and standards governing traffic, parking and loading,
13 encroachments on the public right-of-way, and development.

14 *PLAN Hermosa*

15 PLAN Hermosa is a comprehensive update of the City's General Plan. It was released for public
16 review in December of 2015 and adopted by the City Council on August 22, 2017. In addition to
17 the Mobility Element, PLAN Hermosa's Sustainability + Conservation, Parks + Open Space, and
18 Infrastructure elements all incorporate aspects of sustainable transportation development. The
19 elements include policies intended to effectively manage and maintain the City's circulation
20 system with the goal of minimizing congestion, increasing local and regional access opportunities,
21 and enhancing traffic circulation by reducing vehicle trips and increasing access to non-motorized
22 and low-carbon transportation options such as walking, bicycling, and transit.

23 **PLAN Hermosa MOBILITY ELEMENT**

24 ***Goal 2: A public realm that is safe, comfortable, and convenient for travel via foot, bicycle,***
25 ***public transit, and automobile and creates vibrant, people-oriented public spaces that***
26 ***encourage active living.***

27 **Policy 2.1. Prioritize public rights-of-way.** Prioritize improvements of public rights-of-
28 way that provide heightened levels of safe, comfortable and attractive public spaces for all
29 non-motorized travelers while balancing the needs of efficient vehicular circulation.

30 **Policy 2.2. Encourage traffic calming.** Encourage traffic calming policies and techniques
31 that limit cut-through traffic and efficient movement of people and vehicles along
32 residential areas and highly trafficked corridors.

1 **Policy 2.5. Require sustainable practices.** Incorporate environmental sustainability
2 practices into designs and strategic management of road space and public rights-of-way,
3 prioritizing practices that can serve multiple infrastructure purposes.

4 ***Goal 3: Public rights-of-way supporting a multimodal and people-oriented transportation***
5 ***system that provides diversity and flexibility on how users choose to be mobile.***

6 **Policy 3.1. Enhance public rights-of-way.** Where right-of-way clearance allows, enhance
7 public rights-of-way to improve connectivity for pedestrians, bicyclists, disabled persons,
8 and public transit stops.

9 **Policy 3.2. Complete pedestrian network.** Prioritize investment in designated priority
10 sidewalks to ensure a complete network of sidewalks and pedestrian-friendly amenities
11 that enhances pedestrian safety, access opportunities and connectivity to destinations.

12 **Policy 3.3. Active transportation.** Require commercial development or redevelopment
13 projects and residential projects with four or more units to accommodate active
14 transportation by providing on-site amenities, necessary connections to existing and
15 planned pedestrian and bicycle networks, and incorporate people oriented design practices.

16 **Policy 3.5. Incentivize other modes.** Incentivize local shuttle/trolley services, rideshare
17 and car share programs, and developing infrastructure that support low speed, low carbon
18 (e.g., electric) vehicles.

19 **Policy 3.10. Require ADA standards.** Require that all public rights-of-way be designed
20 per ADA standards by incorporating crosswalks, curb ramps, pedestrian signals, and other
21 components to provide ease of access for disabled persons.

22 ***Goal 4: A parking system that meets the parking needs and demand of residents, visitors,***
23 ***and employees in an efficient and cost-effective manner.***

24 **Policy 4.5. Sufficient bicycle parking.** Require a sufficient supply of bicycle parking to
25 be provided in conjunction with new vehicle parking facilities by both public and private
26 developments.

27 **Policy 4.9. Encourage Transportation Demand Management (TDM) strategies.**
28 Encourage use of transportation demand management strategies and programs such as
29 carpooling, ride hailing, and alternative transportation modes as a way to reduce demand
30 for additional parking supply.

31 ***Goal 5: A robust low cost and low carbon transportation system that promotes the City's***
32 ***environmental sustainability and stewardship goals in support of social and economic***
33 ***objectives.***

34 **Policy 5.1. Prioritize development of infrastructure.** Prioritize the development of
35 roadway and parking infrastructure that encourages private electric and other low carbon
36 vehicle ownership and use throughout the city.

1 **Policy 5.3. Incentivize TDM strategies.** Incentivize the use of TDM strategies as a cost-
 2 effective method for maximizing existing transportation infrastructure to accommodate
 3 mobility demands without significant expansion to infrastructure.

4 **Policy 5.4. Evaluate projects.** Ensure the evaluation of projects for transportation and
 5 traffic impacts under CEQA consider local and statewide goals related to infill
 6 development, the promotion of healthy and active lifestyles through active transportation,
 7 and the reduction of greenhouse gases, in addition to traditional congestion management
 8 impacts.

9 **Policy 5.5. Multimodal development features.** Encourage land use features in
 10 development projects to create compact, connected, and multimodal development that
 11 supports reduced trip generation, trip lengths, and greater ability to utilize alternative
 12 modes of travel.

13 ***Goal 7. A transportation system that results in zero transportation-related fatalities and***
 14 ***which minimizes injuries.***

15 **Policy 7.1. Safe public rights-of-way.** Encourage that all public rights-of-way are safe for
 16 all users at all times of day where users of all ages and ability feel comfortable participating
 17 in both motorized and non-motorized travel.

18 **Policy 7.2. Manage speeds.** Monitor vehicle speeds through traffic controls, speed limits,
 19 and design features with the intended purpose of minimizing vehicle accidents, creating a
 20 pedestrian and bicycle environment, and discouraging cut-through traffic.

21 **Policy 7.5. Appropriate sidewalk widths.** Encourage design and construction plans that
 22 incorporate sidewalks that are wide enough to safely accommodate high levels of
 23 pedestrian activity.

24 ***Goal 8: Facilitate sustainable, effective, and safe movement of goods and commercial***
 25 ***vehicles.***

26 **Policy 8.3. Commercial loading zones.** Encourage businesses to provide commercial
 27 loading zones on-site where possible, or in the adjacent public right-of-way in a manner
 28 that balances the needs of businesses with the impact on traffic conditions and at
 29 appropriate delivery times.

30 **PLAN Hermosa PARKS + OPEN SPACE ELEMENT**

31 ***Goal 4. Direct and accessible routes and connections to parks, recreational facilities, and***
 32 ***open space are provided.***

33 **Policy 4.2 Enhanced access points.** Increase and enhance access to parks and open space,
 34 particularly across major thoroughfares, as well as access points that promote physical
 35 activity such as pedestrian and bike oriented access points.

36 ***Goal 6. The coast and its recreational facilities are easily accessible from many locations***
 37 ***and by multiple transportation modes.***

1 **Policy 6.3. Safe and accessible connections.** Ensure public access points provide safe and
2 accessible connections to The Strand and shoreline, including access for persons with
3 disabilities.

4 **Policy 6.5. Wayfinding and coastal access.** Maximize all forms of access and safety
5 getting to and around the Coastal Zone through infrastructure and wayfinding
6 improvements.

7 **Policy 6.6. Universal access.** Provide resources that improve accessibility to the beach for
8 all visitors.

9 **PLAN Hermosa INFRASTRUCTURE ELEMENT**

10 ***Goal 2: Roadway infrastructure maintenance supports convenient, attractive, and complete***
11 ***streets and associated amenities.***

12 **Policy 2.3. Street and sidewalk standards.** Require the use of standardized roadway,
13 sidewalk, parkway, curb, and gutter designs to ensure continuity and consistency as
14 property redevelops over time.

15 **Policy 2.5. Active transportation dedications.** Require new development and
16 redevelopment projects to provide land or infrastructure necessary to accommodate active
17 transportation, such as widened sidewalks, bike racks, and bus stops in compliance with
18 ADA accessibility standards.

19 **PLAN Hermosa PUBLIC SAFETY ELEMENT**

20 ***Goal 8: Transportation noise sources are minimized.***

21 **Policy 8.2. Alternative modes of transportation.** Reduce noise impacts by encouraging
22 the use of walking, biking, carpooling, use of public transit, and other alternative modes of
23 transportation.

24 **PLAN Hermosa SUSTAINABILITY + CONSERVATION ELEMENT**

25 ***Goal 3: Improved air quality and reduced air pollution emissions.***

26 **Policy 3.2. Mobile source reductions.** Support land use and transportation strategies to
27 reduce emissions, including pollution from commercial and passenger vehicles.

28 **3.13.3 Impact Assessment and Methodology**

29 Thresholds of Significance

30 The following thresholds of significance are based on Appendix G of the 2017 CEQA Guidelines.
31 For purposes of this EIR, implementation of the proposed Project may have a significant adverse
32 impact on traffic if it would do any of the following:

- 1 a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness
- 2 for the performance of the circulation system, taking into account all modes of
- 3 transportation including mass transit and non-motorized travel and relevant components of
- 4 the circulation system, including but not limited to intersections, streets, highways and
- 5 freeways, pedestrian and bicycle paths, and mass transit?
- 6 b) Conflict with an applicable congestion management program, including, but not limited to
- 7 LOS standards and travel demand measures, or other standards established by the county
- 8 congestion management agency for designated roads or highways?
- 9 c) Result in a change in air traffic patterns, including either an increase in traffic levels or a
- 10 change in location that results in substantial safety risks.
- 11 d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous
- 12 intersections) or incompatible uses.
- 13 e) Result in inadequate emergency access.
- 14 f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or
- 15 pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

16 The Project Initial Study (see Appendix A) determined that the proposed Project would result in
 17 no impact under threshold (c). There are no airports or airstrips within the City and none of the
 18 Project components would affect the airports in the regional vicinity (e.g., LAX) or any associated
 19 air traffic patterns. No impact would occur as a result the Project; therefore, this issue is not further
 20 assessed in this EIR.

21 CEQA Section 15064.7 also encourages lead agencies to develop and adopt local thresholds of
 22 significance. Additional City thresholds of significance for traffic and circulation are listed below
 23 and are based on City policy. Standards of significance for transportation impacts in the City are
 24 based on automobile LOS, which is common throughout the State. This is partly because the State
 25 CEQA Guidelines state significance thresholds need to be:

26 “... an identifiable quantitative, qualitative or performance level of a particular
 27 environmental effect, noncompliance with which means the effect will normally be
 28 determined to be significant by the agency and compliance with which means the effect
 29 normally will be determined to be less than significant.” (CEQA Section 15064.7)

30 As previously described, a key provision of SB 743, passed in September 2013, is the elimination
 31 of vehicle delay and LOS as a CEQA significance criterion in urban areas. The basic reason for
 32 this change at the State level is the recognition that there can be conflicts between improvements
 33 that benefit vehicles versus those that benefit other modes of transportation in urban areas. For
 34 example, widening streets to improve automobile LOS can often be to the detriment of pedestrians
 35 or bicyclists, eliminating bicycle lanes, narrowing sidewalks, and increasing road crossing

1 distances. Such road widening can also impact the urban fabric through removal of street trees or
2 building demolition. SB 743 also recognizes that continued reliance on automobiles is at odds with
3 State objectives to reduce GHGs (through reductions in VMT), and that mitigation for increased
4 vehicle delay often involves measures which may increase auto use and discourage alternative
5 forms of transportation. When employed in isolation, LOS can lead to ad hoc roadway expansions
6 that deteriorate conditions on the network as a whole, or discourage transportation improvements
7 that improve street function overall by providing better LOS for vehicles, but decreasing service
8 for transit, pedestrians or bicycles. According to the legislative intent contained in SB 743, changes
9 to the current practice of using LOS are necessary to, “*More appropriately balance the needs of*
10 *congestion management with statewide goals related to infill development, promotion of public*
11 *health through active transportation, and reduction of greenhouse gas emissions.*”

12 Pursuant to SB 743, OPR released *Proposed Updates to the CEQA Guidelines* in November 2017.
13 OPR’s *Proposed Updates to the CEQA Guidelines* utilizes VMT as the replacement metric for
14 LOS in the context of CEQA. However, since OPR has not yet adopted these updates to the CEQA
15 Guidelines, this EIR continues to evaluate the project using the City’s adopted significance criteria
16 of automobile delay.⁶ However, this EIR also evaluates consistency with PLAN Hermosa policies,
17 which emphasize pedestrian oriented design and the creation of living streets that promote the
18 health and mobility by providing high quality pedestrian, bicycling, and transit access.

19 *Construction Traffic*

20 Traffic impacts associated with construction activities are considered potentially significant if
21 Project construction would materially interfere with the area traffic, pedestrian, or bicycle flow,
22 cause unsafe conditions, or introduce substantial truck traffic through a residential area.

23 *Intersection Delay*

24 The City has established criteria for assessing whether project-related traffic increases result in
25 significant impacts on operating conditions of signalized and unsignalized intersections. The
26 intersection threshold criteria used to determine if the Project has an adverse significant traffic
27 impact at signalized intersections in the City are shown in Table 3.13-6.

⁶ The revised CEQA Guidelines regarding use of VMT are expected to be fully in effect by January of 2020.

1 **Table 3.13-6. City of Hermosa Beach Significant Impact Criteria for Signalized**
 2 **Intersections**

ICU	Level of Service	Project-Related Increase in ICU
0.000-0.800	LOS A, B or C	Degrades to LOS D, E, or F
>0.801 – 0.900	LOS D	Equal to or greater than 0.02 Or Degrades to LOS E or F
>0.901 or greater	LOS E or F	Equal to or greater than 0.05 Or Degrades from LOS E to F

3 Notes:
 4 ICU – Intersection Capacity Utilization
 5 LOS – Level of Service; refer to Table 3.13-3 for definitions.
 6 Source: The Mobility Group 2017.

7 The intersection threshold criteria used to determine whether the Project has an adverse significant
 8 traffic impact at unsignalized intersections in the City are shown in Table 3.13-7.

9 **Table 3.13-7. City of Hermosa Beach Significant Impact Criteria for Unsignalized**
 10 **Intersections**

Level of Service	Final Level of Service
A, B or C	Change to LOS D, E, or F
D, E, or F	Increase in traffic of 10% or more

11 Notes:
 12 LOS – Level of Service; refer to Table 3.13-3 for definitions.
 13 Source: The Mobility Group 2017.

14 *Regional Transportation Facilities*

15 The 2010 CMP for Los Angeles County (Los Angeles County Metropolitan Transportation
 16 Authority 2010) requires that when an EIR is prepared for a proposed project, traffic and transit
 17 impact analyses be conducted for select regional facilities based on the quantity of project traffic
 18 The CMP guidelines require that the geographic scope of the study area to be analyzed is the first
 19 issue to be addressed. The criteria for determining the study area for CMP arterial monitoring
 20 intersections and for freeway monitoring locations are:

- 21 • All CMP arterial monitoring intersections where the proposed project will add 50 or more
 22 trips during either the AM or PM weekday peak hours of adjacent street traffic.
- 23 • All CMP mainline freeway monitoring locations where the proposed project will add 150
 24 or more trips, in either direction, during either the AM or PM weekday peak hours.

1 A significant project-related CMP impact would be identified if:

- 2 • The project would increase traffic by 2 percent (V/C greater than 0.02) on a CMP facility
3 causing it to operate at LOS F or if the facility is already at LOS F, the project traffic causes
4 an incremental change in the V/C ratio of 0.02 or greater.

5 *Alternative Transportation Facilities*

6 The analysis of the Project's impacts on alternative transportation facilities reviews to what extent
7 the proposed Project would disrupt, interfere, or conflict with existing alternative transportation
8 facilities and program, plans, and policies supporting alternative transportation, for example,
9 public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of
10 such facilities.

11 An analysis of potential Project impacts on the transit system was also performed, per the CMP
12 requirements and guidelines. Neither the CMP nor the City has significant impact thresholds for
13 transit service. For the purposes of this analysis, the following criteria were established to
14 determine if there would be any significant transit impacts due to the Project:

- 15 • The capacity of the transit system serving the Project area would be substantially exceeded.
- 16 • The Project would conflict or hinder the goals of plan, programs, or policies supporting
17 alternative transportation.

18 Methodology

19 *Intersection Delay Impact Analysis*

20 The intersection delay impact analysis presented below summarizes the results of the Traffic Study
21 prepared for the project by The Mobility Group (see Appendix I), which was independently
22 reviewed by Fehr & Peers. The scope of the Traffic Study conforms to standards set forth in
23 adopted City guidelines. The roadways, intersections, and other transportation systems included
24 in the Traffic Study were identified jointly by The Mobility Group and City staff based on the
25 magnitudes and specific locations of Project-generated demand on transportation systems,
26 particularly traffic and the potential for newly generated trips to impact streets and roadways in
27 the immediate vicinity of the Project site. Previous area circulation studies were considered to
28 ensure that potentially affected facilities were included in the analysis.

29 Peak hour traffic impacts for the Project were evaluated during typical weekday AM (7:00am to
30 9:00am) and PM (4:00pm to 6:00pm) peak hours, Friday PM peak hour (5:00pm to 9:00pm),
31 Saturday midday peak hour (12:00pm to 3:00pm), and Sunday afternoon peak hour (3:00pm to
32 6:00pm). These were determined to be the peak periods of highest traffic volumes from 24-hour

1 roadway volume counts conducted for a 7-day period during the summer period prior to
2 conducting the Project-specific intersection counts. Weekday peak hour traffic counts were
3 conducted on Thursday August 27, 2015. Traffic counts were also conducted for the Friday PM
4 peak hour on Friday August 21, 2015 for the Saturday midday peak hour, on Saturday August 22,
5 2015 and for the Sunday afternoon peak hour on Sunday August 23, 2015.

6 In order to evaluate the potential traffic impacts of the proposed Project on the surrounding street
7 system, traffic estimates were developed for the Existing Year (2016) and Future Year (2021) with
8 and without the anticipated Project-generated traffic.

- 9 • Estimates of Existing Year (2016) traffic growth were developed for the study area without
10 the addition of Project-related traffic. These future traffic volumes, referred to as Existing
11 (2016) Without Project forecasts, represent the conditions that provide a baseline for the
12 Existing (2016) Plus Project traffic impact analysis. To develop the Existing (2016)
13 Without Project forecasts, the August 2015 traffic volume counts were factored upward by
14 1 percent to represent 2016 conditions.
- 15 • The traffic generated by the proposed Project in the Existing Year (2016) was estimated
16 and trip distribution was modeled across the surrounding street system. The Project traffic
17 was added to the Existing (2016) Without Project forecast to create the Existing (2016)
18 Plus Project traffic forecast.
- 19 • Estimates of Future Year (2021) traffic growth were developed for the study area in order
20 to forecast future traffic conditions without the proposed Project. These projected traffic
21 volumes, referred to as Future (2021) Without Project forecast, represent the conditions
22 expected during the Future Year (2021) and provide the baseline for the Future (2021) Plus
23 Project traffic impact analysis. A growth rate of 1 percent per year was applied for this
24 ambient traffic growth based on historical traffic growth.⁷ Additionally, cumulative growth
25 associated with specific development projects that are pending, approved, or currently
26 under construction and potentially could be in place by the Future Year (2021).⁸
- 27 • The traffic generated by the proposed Project in the Future Year (2021) was estimated and
28 trip distribution was modeled across the surrounding street system. The Project traffic was
29 added to the Future (2021) Without Project forecast to form the Future (2021) Plus Project
30 traffic forecast.

⁷ An evaluation of growth projections from the CMP for Regional Statistical Area 18 (which includes Hermosa Beach) showed an annual growth forecast of 0.25 percent per year between 2015 and 2020. The use of 1 percent per year growth factor therefore provides a conservative forecast.

⁸ This approach is conservative in that not all of the related projects may be ultimately built, and not all may be built by 2021 (i.e., the buildout year of the proposed Project). Along with the fact that the analysis includes both a list of specific related projects and a general background growth factor, the analysis likely overstates the future growth in traffic without the proposed Project.

1 *Existing Year (2016) Conditions*

2 CEQA Section 15125 directs that an EIR “must include a description of the physical environmental
3 conditions in the vicinity of the project, as they exist at the time the NOP is published, or if no
4 NOP is published at the time environmental analysis is commenced, from both a local and regional
5 perspective. These environmental settings will normally constitute the baseline physical conditions
6 by which a lead agency determines whether an impact is significant.”⁹

7 However, the State CEQA Guidelines and the Courts have recognized that the date for establishing
8 an environmental baseline cannot be rigid. The California Supreme Court determined that
9 “[n]either CEQA nor the State CEQA Guidelines mandate a uniform, inflexible rule for
10 determination of the existing conditions baseline. Rather, an agency enjoys the discretion to
11 decide, in the first instance, exactly how the existing physical conditions without the project can
12 most realistically be measured, subject to review, as with all CEQA factual determinations, for
13 support by substantial evidence.”¹⁰ The California Supreme Court further stated that
14 “Environmental conditions may vary from year to year and in some cases it is necessary to consider
15 conditions over a range of time periods. In some circumstances, peak impacts or recurring periods
16 of resource scarcity may be as important environmentally as average conditions. Where
17 environmental conditions are expected to change quickly during the period of environmental
18 review for reasons other than the proposed project, project effects might reasonably be compared
19 to predicted conditions at the expected date of approval, rather than to conditions at the time
20 analysis is begun.”¹¹

21 In compliance with CEQA case law and the discretion of the Lead Agency (i.e., the City), the
22 baseline for the transportation and traffic impact analysis in this EIR is 2016, the year the NOP
23 was published (see Appendix A). As discussed in Section 3.13.1, *Existing Setting*, consistent with
24 CEQA Section 15125, the existing conditions are described 2016, the year the NOP was published.
25 It should be noted that the Project site is located in the developed area of the Downtown Core,
26 which is already built out with limited traffic growth. No significant new developments have been
27 constructed in the immediate vicinity that would result in substantial changes to the existing traffic
28 between the NOP year and 2018 (refer to Section 3.02, *Cumulative Impacts*).

⁹ 14 California Code of Regulations 15125 (a).

¹⁰ *Communities for a Better Environment v. South Coast Air Quality Management District (2010) 48 Cal.4th 310, 320*

¹¹ *Communities for a Better Environment, supra, 48 Cal.4th at p. 328.*

1 *Future Cumulative Projects Trip Generation and Distribution*

2 Trip generation estimates for the future cumulative projects were generally taken from the
3 environmental and/or traffic studies prepared for the individual cumulative projects (see Appendix
4 I; Table 3.1 of the Traffic Study). Where the information was not available from previous reports,
5 the cumulative project trip generation was estimated using trip rates developed by the Institute of
6 Transportation Engineers (ITE).¹²

7 Cumulative trip generation information was available for the weekday AM peak hour and the
8 weekday PM peak hour from the associated cumulative project traffic studies, but not available
9 for the Friday PM peak hour, the Saturday midday peak hour, and the Sunday afternoon peak hour.
10 The ITE trip rates database does not identify trip rates specifically for a Friday. Because the hours
11 of analysis in this study is essentially the same for a Friday PM peak hour (5:15pm – 6:15pm) as
12 for a weekday PM peak hour (5:00pm – 6:00pm), the cumulative project trip generation rates for
13 the weekday PM peak hour were directly applied the Friday PM peak hour scenario. The Project’s
14 trips were then added to the existing conditions traffic counts for a Friday PM peak hour (collected
15 on Friday August 21, 2015), which reflect the greater background traffic volumes that
16 cumulatively occur on a Friday PM peak hour than during the typical weekday (i.e., Monday
17 through Thursday) PM peak hour. For the Saturday midday peak hour and the Sunday afternoon
18 peak hour, cumulative trip generation was estimated based on a methodology which included using
19 trip rates in *ITE Trip Generation – 9th Edition* using reasonable assumptions and interpretations
20 and professional judgment. This generally involved estimating the percent of daily trips that would
21 occur in the specific analysis hour, or by using the trip rate for the “peak hour of generator.” The
22 cumulative trip rates used in the analysis are presented in the Traffic Study. Similarly, cumulative
23 trip distribution estimates were also taken from previous traffic studies where available or were
24 estimated based on an understanding of the type of the proposed cumulative project, its location,
25 and the Downtown roadway and circulation system. Each of these cumulative trip generation rates
26 was independently reviewed and verified by Fehr & Peers during peer review of the Traffic Study.

¹² ITE trip rates are usually provided for the peak hour of street traffic (AM and PM peak hour), and the “peak hour of generator” (i.e., the hour of highest trip generation for the land use). For the Saturday midday peak hour and Sunday Afternoon peak hour, this peak hour of generator trip rate was used when considered to appropriately represent the analysis time period, though in some cases may result in a conservatively high estimate. In cases where it was considered that the peak hour of generator rate was not applicable, the trip rate for the analysis time period was based on estimates using similar or comparable land uses, or by estimating the percent of daily trips that would occur in the analysis time period and based on professional judgment from available data from other time periods.

1 *Project Trip Generation Methodology*

2 The proposed Project has unique characteristics in that it is located both in the Downtown and
3 adjacent to The Strand, Pier Plaza, and Hermosa Pier, which are areas of exceptionally high
4 pedestrian activity as well as bicycle use. The proposed Project is a mixed-use commercial project
5 with facilities that are primarily for hotel guests, with many open to the public, and independent
6 retail and restaurant uses for the general public. The proposed Project is in a location where many
7 people already come to visit Downtown retail establishments and restaurants on Pier Plaza and
8 Hermosa Avenue, as well as The Strand and the beach. They park one time and then visit multiple
9 destinations as they walk around Downtown, visit the beach, and walk/bike along The Strand.
10 Consequently, the proposed uses at the Project site (e.g., hotel lounge, restaurants, etc.) would, for
11 some, be just one more stop on a visit already made to Downtown. Because they are already
12 visiting Downtown, for many patrons of business at the Project site, their visit would not generate
13 additional vehicle trips.

14 Standard trip generation rates from the ITE Trip Generation manual are not directly applicable to
15 the proposed mixed-use hotel because they are often derived from and applied to stand-alone uses
16 in suburban locations. ITE trip rates serve as the basis for initial estimates of Project trip generation
17 with appropriate adjustments to adequately reflect the unique circumstances of the Project vicinity
18 described above. This includes adjusting for the fact that some people will already be in the hotel
19 and would not make additional vehicle trips to other Project land uses such as restaurants (internal
20 trips), and some of the external visitors to the Project would already be Downtown and would walk
21 or bike to the Project (non-automotive trips). These types of adjustments then applied to base trip
22 generation rates in *ITE Trip Generation – 9th Edition*, are discussed below, by each type of use in
23 the Project. Where appropriate, empirical data from traffic studies for recently completed similar
24 uses in the Project vicinity (i.e., Beach House Hotel) were used to estimate the trip generation for
25 certain uses proposed by the Project in place of standard ITE trip generation rates. Trip generation
26 estimates for the Project are discussed below. Each of the trip generation adjustments was
27 independently verified by Fehr & Peers during peer review of the Traffic Study to ensure that the
28 adjustments were consistent with similar-type hotels in Southern California.

29 In order to prepare a conservative analysis, Project uses were each treated individually for the
30 purposes of estimating trip generation, as described below.

- 31 • *Hotel Rooms* – Unlike a suburban stand-alone hotel, the proposed hotel is located in a
32 visitor destination area. A primary reason for people staying at the hotel would be for a
33 visit to Downtown and the adjacent beach and Pacific Ocean. Once people have arrived at
34 the hotel there would likely be a strong tendency for guests when they leave the hotel to
35 either walk or rent a bicycle to access local destinations, rather than use a car. This is

1 demonstrated by empirical data collected at the nearby Beach House Hotel, which
 2 identified that vehicle trip rates were only 30 percent of the standard ITE trip rates for a
 3 hotel (see Appendix I).

4 Trip generation estimates for the hotel rooms were therefore based on empirical data
 5 collected at the nearby Beach House Hotel – which is directly comparable to the hotel
 6 element of the proposed Project. The Beach House Hotel is a luxury 96-room hotel located
 7 on The Strand just north of the Project site. The hotel also has approximately 2,285 square
 8 feet (sf) of meeting rooms (approximate occupancy of 68 to 134 persons).

- 9 • *Hotel Restaurant/Lobby Bar* – In common with many hotels, the proposed hotel would
 10 include a hotel restaurant and lobby bar. These would be provided primarily for hotel
 11 guests, and would be the primary food service for hotel guests. However, because of the
 12 hotel location directly on The Strand and adjacent to Pier Avenue, these uses would also
 13 be expected to attract visitors from outside the hotel, although many of those visitors would
 14 be people already visiting Downtown and who have already parked and would therefore
 15 walk and not drive to the Project.

16 Typically, trips to these uses are included in the ITE Hotel trip rate. However, the ITE
 17 Hotel trip rate has been modified used for this analysis because the because of the proposed
 18 Project’s location on The Strand means that many of the visitors to the hotel restaurant and
 19 bar lounge would be visitors to the Downtown and not guests of the hotel, and therefore,
 20 trips for the hotel restaurant and lobby bar were estimated separately.

21 Adjustments and replacements to the standard ITE trip rates were made to reflect the
 22 characteristics of these uses described above, with estimates that 50 percent of trips would
 23 be internal to the proposed Project, and that 40 percent of external trips would be by
 24 automobile (25 percent on weekends due to the typically higher visitor rates to the area at
 25 weekends), with the remainder being non-automobile modes (e.g., walk, bicycle, or
 26 transit).

- 27 • *Hotel Meeting Rooms* – The hotel meeting rooms would be used for meeting/functions
 28 where attendees are either staying in the hotel (internal), or not staying in the hotel
 29 (external). While the ITE trip rates for hotels include meeting rooms, a conservative
 30 analysis addresses a scenario where attendees to meeting room functions are not staying at
 31 the hotel and trips are independent of the hotel trip rate.

32 While some of the events held in the hotel meeting rooms would be attended primarily by
 33 guests staying at the hotel, some events would be attended by outside visitors. In order to
 34 prepare a conservative analysis, trip generation for the meeting rooms assumed an event
 35 attended entirely by outside visitors. As such events would tend to be “destination” events
 36 (i.e., the primary reason for visiting the hotel and Downtown), it is assumed that none of
 37 the trips would be internal to the hotel or the Downtown.

38 Trips to/from the meeting rooms were estimated using a trip rate of 0.50 trips/attendee.
 39 (Based on 128 occupants, all arriving by automobile, with 1.2 persons per vehicle, and
 40 60 percent arrive or depart in the peak hour.)

- 41 • *Hotel Terrace/Rooftop Lounge* – The second-floor courtyard terrace and rooftop terrace
 42 would provide facilities for hotel guests, but would also be accessible to the public. The
 43 terraces would therefore provide an additional amenity to the array of destinations already

1 provided in Downtown, and many visitors would already have parked in Downtown for
2 their multi-purpose trip.

3 As the second-floor courtyard terrace and rooftop terrace would be part of the hotel and
4 would provide an amenity for hotel guests, some of the users of these facilities would
5 already be on-site. The terraces would also be used by members of the public – some of
6 whom would already be in the Downtown and would already have parked in the Downtown
7 for their multi-purpose trip. It is estimated that 60 percent of trips would be from hotel
8 guests, and that 50 percent of the external visitors would use automobiles with the
9 remainder using non-automobile modes (i.e., walk, bike, or public transit).¹³

- 10 • *Hotel Spa/Wellness Salon* – The spa/wellness center would be comprised of a fitness
11 center, exclusively for the use of hotel guests and spa visitors only, as well as several
12 treatment rooms within the spa itself. While the spa would be open to the public, the small
13 size of the facility is intended as an amenity for hotel guests and would be conducive to
14 hotel guests as opposed to members of the public driving in from off-site. Therefore, it is
15 assumed that 75 percent of patrons would be hotel guests, and that 80 percent of external
16 trips would be by automobile on weekdays and 60 percent on weekends.
- 17 • *Beach Quick Service Food* – Two walk-up style casual cafe spaces are planned adjacent to
18 the public plaza at the terminus of 13th Street & Beach Drive. These are programmed with
19 walk-up windows intended to provide quick-serve food service for beach goers and users
20 of The Strand. As these are intended to service people already at the hotel and the large
21 number of pedestrians and bicyclists in the area, it is highly unlikely they would be
22 “destination” uses that people from outside the area would drive to. It was therefore
23 assumed that 95 percent of trips to these uses would already be in the hotel or general area,
24 and that 5 percent of the external visitors would drive.
- 25 • *Other Project Land Uses – Retail, Restaurant* – While the retail and restaurant uses in the
26 Project would be separate to the hotel, there would be overlap with the hotel in that some
27 of the retail and restaurant customers would be staying at the hotel. Other retail customers
28 may already be in the Downtown and visit the retail and restaurant uses as one of multiple
29 stops as they walk around Downtown. Neither category of customer would drive to the
30 retail use as they would have already parked elsewhere. Included in the retail uses would
31 be a bicycle shop that would function in the same way as the existing bicycle shop on the
32 Project site, providing bicycle rentals for Downtown visitors. Some of these would include
33 hotel residents as well as people who are already parked in the Downtown (and who would
34 make multiple visits/stops to Downtown destinations without moving their cars).

35 For the Project’s retail and restaurant uses, trip generation estimates were based on ITE trip
36 rates adjusted for the local circumstances. For the small amount of local retail uses, the ITE
37 trip rate for specialty retail was used, and it was estimated that 10 percent of trips would
38 be internal to the proposed Project (already also visiting another part of the Project), and
39 that 40 percent of the external visitors would arrive by automobile with the remainder using
40 non-automobile modes (i.e., walk, bicycle, or transit).

¹³ In addition to data from the adjacent Beach House Hotel, data is available from hotels in Santa Monica that found that hotel trip rates were largely consistent between facilities, and ranged between 50 percent and 60 percent of the standard ITE Hotel rates. See further discussion below under *Total Proposed Project Trip Generation*.

1 For the restaurant uses it was also estimated that 10 percent of trips would be internal to
2 the proposed Project (also already visiting another part of the Project), and that 40 percent
3 of the external visitors would arrive by automobile with the remainder using non-
4 automobile modes (i.e., walk, bicycle, or transit).

5 *Total Proposed Project Trip Generation*

6 Applying the adjustments discussed above, trip rates and the trip generation estimates for the five
7 time periods analyzed total approximately 42 percent of the trips that would be estimated using
8 the standard ITE trip rates, while the trip generation rates for the remaining trips were adjusted for
9 site-specific conditions and empirical data from nearby similar uses (i.e., the Beach House Hotel),
10 as discussed above. The trip rates and estimates reflect the Project's unique location adjacent to
11 the beach in Downtown, amid an area of high pedestrian and bicycle activity and all of the factors
12 discussed above (see Tables 3.13-8 through 3.13-11). They are also consistent with observed
13 experience at other locations in Southern California.

14 In addition to the data from the adjacent Beach House Hotel, data is available from comparable
15 hotels in Santa Monica that found that hotel trip rates were largely consistent between facilities,
16 and ranged between 50 percent and 60 percent of the standard ITE Hotel rates. The lower rates
17 were explained by the fact that the hotels studied were in dense urban areas where walking is more
18 common, compared to the fact that ITE trip rates are for typically standalone suburban locations;
19 and higher levels of trips captured internally by restaurant uses in the hotels. However, three of the
20 hotels were at least six to seven blocks from the beach, and not directly comparable to the proposed
21 Project, and the reduced trip rate was more due to their location in a walkable downtown than
22 being adjacent to the beach. One hotel (i.e., Holiday Inn Santa Monica Beach [now the Wyndham
23 Hotel Santa Monica]), on the other hand, was located two blocks from the beach in the core of
24 Downtown Santa Monica (and with the most similar location to the proposed Project with respect
25 to beach adjacency), and had lower trip rates than the rest, which were 35 to 45 percent of ITE trip
26 rates for certain peak hours. The data revealed that over 60 percent of trips to/from that hotel were
27 made by foot.

1 Table 3.13-8. Project Hotel Use Trip Rates and Estimates

Hotel Use	Quantity	Units	Peak Hour	ITE Trip Rate	Adjusted Trips		
					% Internal	% Auto	# Trips
Rooms	100	Rooms	AM	0.17/room	0	NA	17
			PM	0.18/room	0	NA	18
			FRI	0.18/room	0	NA	18
			SAT	0.22/room	0	NA	22
			SUN	0.17/room	0	NA	17
Hotel Restaurant/ Lounge/ Bar	7,019	sf	AM	10.8/1,000 sf	50	40	15
			PM	9.85/1,000 sf	50	40	14
			FRI	9.85/1,000 sf	50	40	14
			SAT	14.07/1,000 sf	50	25	12
			SUN	18.46/1,000 sf	50	25	16
Meeting Rooms	128	occupancy	AM	0.50/occ	NA	NA	64
			PM	0.50/occ	NA	NA	64
			FRI	0.50/occ	NA	NA	64
			SAT	0.50/occ	NA	NA	64
			SUN	0.50/occ	NA	NA	64
Terraces	10,868	sf	AM	0.00/1,000 sf	60	50	0
			PM	11.34/1,000 sf	50	50	25
			FRI	11.34/1,000 sf	60	50	25
			SAT	19.29/1,000 sf	60	50	42
			SUN	16.06/1,000 sf	60	50	35
Spa/Salon	2,857	sf	AM	1.21/1,000 sf	75	80	1
			PM	1.45/1,000 sf	75	80	1
			FRI	1.45/1,000 sf	75	80	1
			SAT	5.08/1,000 sf	75	60	2
			SUN	5.08/1,000 sf	75	60	2
Walk-up Cafés	2,192	sf	AM	43.87/1,000 sf	5	5	5
			PM	26.15/1,000 sf	5	5	3
			FRI	26.20/1,000 sf	5	5	3
			SAT	54.55/1,000 sf	5	5	6
			SUN	36.59/1,000 sf	5	5	4

1 **Table 3.13-9. Project Retail Use Trip Rates and Estimates**

Use	Quantity	Units	Peak Hour	ITE Trip Rate	Adjusted Trips		
					% Internal	% Auto	#Trips
Retail	5,215	sf	AM	6.84/1,000 sf	10	40	13
			PM	2.71/1,000 sf			5
			FRI	2.71/1,000 sf			5
			SAT	4.76/1,000 sf			9
			SUN	2.31/1,000 sf			4

2 **Table 3.13-10. Project Restaurant Use Trip Rates and Estimates**

Use	Quantity	Units	Peak Hour	ITE Trip Rate	Adjusted Trips		
					% Internal	% Auto	#Trips
Restaurant	5,757	sf	AM	0.81/1,000 sf	10	40	2
			PM	7.49/1,000 sf			16
			FRI	7.49/1,000 sf			16
			SAT	10.82/1,000 sf			22
			SUN	8.38/1,000 sf			17

3 **Table 3.13-11. Existing On-Site Use Trip Rates and Estimates**

Existing Use	Quantity	Units	Peak Hour	ITE Trip Rate	Adjusted Trips		
					% Internal	% Auto	#Trips
Restaurant	9,596	sf	AM	0/1,000 sf	0	40	0
			PM	9.85/1,000 sf			38
			FRI	9.85/1,000 sf			38
			SAT	14.07/1,000 sf			54
			SUN	18.5/1,000 sf			71
Retail	6,060	sf	AM	0/1,000 sf	0	40	0
			PM	2.71/1,000 sf			7
			FRI	2.71/1,000 sf			7
			SAT	4.76/1,000 sf			12
			SUN	2.31/1,000 sf			6
West Bay Apartments (Residential)	8	DU	AM	0.51/DU	0	100	4
			PM	0.62/DU			5
			FRI	0.62/DU			5
			SAT	0.52/DU			4
			SUN	0.51/DU			4

1 *Trip Rates for Friday PM Peak Hour, Saturday Midday Peak Hour and Sunday Afternoon Peak*
2 *Hour*

3 Because it is not standard industry practice, neither the standard ITE trip rates database nor the
4 empirical studies for hotels in the immediate Project vicinity (or for hotels in similar coastal cities)
5 identify trip rates specifically for a Friday. Although the ambient existing background traffic
6 volumes are typically higher in the Downtown on a Friday night (as demonstrated through data
7 collected on Friday August 21, 2015), the Project itself would not be expected to generate a higher
8 number of trips during the Friday afternoon peak hour than during the remainder of the week.
9 Therefore, the Project’s estimated trip rates for the weekday PM peak hour were directly adopted
10 for the Friday PM peak hour scenario. For the Saturday midday peak hour and the Sunday
11 afternoon peak hour, trip generation was estimated based on a methodology which included using
12 trip rates in *ITE Trip Generation – 9th Edition* with reasonable assumptions and interpretations and
13 professional judgment. This generally involved using the trip rate for the “peak hour of generator”
14 or by using the information available within *ITE Trip Generation – 9th Edition* to derive best
15 estimates.

16 *Regional Transportation Facilities*

17 The analysis of the Project’s impacts on regional facilities is based on the CMP guidelines
18 established in the 2010 CMP for Los Angeles County which analyze impacts to Arterial
19 Intersections, and Mainline Freeway Locations, and the CMP Highway and Roadway system.

20 *Alternative Transportation Facilities*

21 The analysis of the Project’s impacts on alternative transportation facilities reviewed to what extent
22 the proposed Project would disrupt, interfere, or conflict with existing alternative transportation
23 facilities and program, plans, and policies supporting alternative transportation. Applicable
24 policies, plans, and programs included but were not limited to the Los Angeles County Long Range
25 Transportation Plan, the South Bay Bicycle Master Plan, and the Hermosa Beach Downtown Core
26 Revitalization Strategy.

27 Additionally, Section B.8.4 of the CMP provides a methodology for estimating the number of
28 transit trips expected to result from a proposed project based on the projected number of vehicle
29 trips. This methodology assumes an Average Vehicle Ridership (AVR) factor of 1.4 in order to
30 estimate the number of person trips to and from the project and then provides guidance regarding
31 the percent of person trips assigned to public transit depending on the type of use
32 (commercial/other; residential) and its proximity to transit services.

1 *Construction Traffic*

2 The Applicant prepared a preliminary draft Construction Management Plan that addresses all
 3 aspects of construction phasing, traffic generation, haul and cement truck routes and staging, lane
 4 closures, construction parking and traffic safety measures (see Appendix I). While the plan
 5 provides extensive conceptual details, many critical aspects of the plan remain general such as the
 6 timing and duration of lane closures, traffic control devices, traffic control flaggers, etc. As a result,
 7 the Applicant's preliminary draft Construction Management Plan was utilized as a starting point
 8 to assist in determining the location, duration and severity of short-term Project-related
 9 construction impacts. Potential impacts were then independently analyzed and mitigation
 10 measures were proposed where required, such as adding more detail to initial conceptual proposals
 11 contained in the preliminary draft Construction Management Plan. The analysis of the proposed
 12 Project's construction impacts considers heavy truck traffic generated from excavation,
 13 construction vehicles, and material and equipment delivery over the duration of the 24- to 30-
 14 month period of construction. Additionally, the analysis evaluates the potential for construction-
 15 related impacts to traffic flows, reduction in lane capacities, delays or alterations of transit service,
 16 and impacts to safety, pedestrian and bicycle circulation.

17 **3.13.4 Project Impacts and Mitigation Measures**

18 The proposed Project could potentially create transportation and traffic impacts through the
 19 generation of both short-term construction-related traffic (i.e., over approximately 24- to 30-months)
 20 as well as long-term increases in operational traffic. As discussed in Impact TT-1 below, potential
 21 short-term construction traffic impacts would result from increased excavation-related haul trips,
 22 concrete trucks, and closure of traffic lanes and surrounding sidewalks. Potential loss of coastal
 23 access parking during construction is discussed further in Section 3.3, *Recreation*. Project
 24 implementation would incrementally increase congestion at Downtown intersections as well as
 25 congestion along existing bicycle and pedestrian public rights-of-way. These impacts are discussed
 26 in detail below.

27 Impact Description

28 *Would traffic impacts associated with construction activities conflict with adopted policies, plans,*
 29 *or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the*
 30 *performance or safety of such facilities?*

31 **TT-1 Construction of the proposed Project would create *significant and unavoidable***
 32 **temporary, but prolonged impacts in the Project vicinity. Construction**

1 **activities would materially interfere with traffic flow through the introduction**
2 **of substantial numbers of heavy trucks and would result in sidewalk closures,**
3 **interference with pedestrian and bicycle activity, and transit delays.**

4 As described in Section 2.5.1, *Phasing*, construction activities associated with the proposed Project
5 would occur in five phases of construction beginning in winter 2019 and lasting for approximately
6 24 to 30 months. Site clearing and demolition of existing development (e.g., buildings, pavements,
7 etc.) on the Project site is anticipated to occur over approximately 3 months. Shoring, excavation,
8 and the installation of dewatering systems would occur over 6 months and construction of the
9 subterranean parking garage and hotel building would occur over 20 months, with completion of
10 the proposed mixed-use hotel anticipated in 2021. As discussed in Impact NOI-1, with the
11 implementation of MM NOI-1a, construction work hours would be restricted to 8:00am to 6:00pm
12 Monday through Friday and 9:00am to 5:00pm Saturday, consistent with HBMC Section 8.24.050.
13 However, the Applicant has proposed concrete pours to occur during the late evening hours (i.e.,
14 7:00pm to 3:00am) in order to reduce potential effects on traffic congestion within the Downtown
15 (refer to Impact NOI-1 for additional discussion regarding noise exemptions for concrete pours).

16 *Construction Site Access and Road Closures*

17 All construction activities during the 24- to
18 30-month construction period are
19 proposed to be staged within secured
20 construction areas located within or
21 adjacent to the Project site. As described in
22 Section 2.5.5, *Construction Staging, Site*
23 *Access, and Safety*, the Applicant has
24 proposed the primary construction staging
25 area within Lot B, which would include a
26 truck turn-around area, tower crane staging
27 area, materials and equipment laydown
28 and distribution point, concrete pumping
29 staging and access, soil freezing refrigerant
30 equipment area, construction mockup area,
31 and temporary construction offices. (The



13th Street would be closed between Lot C and Beach Drive to provide access to inbound and outbound construction-related traffic and equipment accessing the Project site. This is a relative narrow roadway and use by heavy haul trucks could potentially present conflicts with vehicles exiting Lot C.

32 use of Lot B for construction activities would be subject to City Council approval for use of City
33 property; refer to the discussion in Section 2.0, *Project Description*.) As discussed in Section 3.3,
34 *Recreation*, this would temporarily eliminate up to 38 coastal access parking spaces (refer to

1 Impact REC-1). However, in order to reduce short-term, temporary construction-related impacts
2 to coastal access parking, the Applicant shall be required to locate its construction office off-site
3 in nearby vacant tenant space and reach agreements for off-site construction parking with
4 surrounding properties (e.g., AES Redondo Beach Natural Gas Power Plant, Vons, Beach House,
5 etc.). Further, with the implementation of MM REC-1a the Applicant would be required to retain
6 at least 15 parking spaces for public use during the 15-month period of Phase 4 and Phase 5
7 construction activities.

8 As described in the Applicant's preliminary draft Construction Management Plan, dedicated
9 construction entry to the Project site would be provided along 13th Street where construction
10 flaggers would be stationed to direct construction traffic and maintain public safety. All
11 construction trucks and deliveries would occur on 13th Street, with right-in and right-out turns at
12 Hermosa Avenue. 13th Street would be closed between Beach Drive and Lot C, which would
13 disrupt existing traffic flows in this area; however, access to and from Lot C along 13th Street
14 would be maintained at all times. Additionally, apart from the 100 feet between Lot B and Beach
15 Drive, 13th Court would remain open at all times for deliveries to existing adjacent uses.
16 Emergency knox boxes (i.e., small, wall-mounted safes that holds building keys for fire
17 departments, emergency medical services, or police) would be kept at the construction site at 13th
18 Street, if emergency access into the Project site is required during after-hours.

19 Project construction would require the temporary or extended closure of all or parts of traffic lanes
20 (and sidewalks) on surrounding streets (i.e., 13th Street, 13th Court, The Strand, and Pier Plaza) to
21 accommodate utility trenching and installation of other Project-related improvements (e.g.,
22 13th Court Plaza). Certain day-to-day construction activities could also result in partial lane
23 closures on Hermosa Avenue adjacent to the Project site on a temporary and/or intermittent basis
24 for utility relocations/hook-ups, delivery of materials, and other miscellaneous construction
25 activities, as necessary. Such activities would only occur during off-peak hours only on certain
26 days, and would not be regular, recurring events. In these instances, construction flaggers would
27 be used to control traffic movement during the ingress and egress of trucks and heavy equipment.
28 Any such closures would be coordinated with and approved by the City in advance of these
29 activities being implemented.

30 *Heavy Haul Trucks and Concrete Trucks*

31 Construction of the proposed hotel would require the use of heavy construction equipment,
32 including a substantial number of heavy haul trucks, particularly during the first 19 months of
33 construction activity.

1 During Phase 1 of construction, site clearing would involve export of materials for a 2-week
2 period, with approximately 20, 60-foot long, high-sided dump trucks per day accessing the Project
3 site via two construction entrances on 13th Street and Beach Drive. Demolition would involve
4 loading and hauling of materials for approximately 4 weeks, with up to 25, 60-foot long, high-
5 sided dump trucks per day. During Phase 2 of construction, excavation of the two subterranean
6 levels to a depth of 30.5 feet is anticipated to generate up to a maximum of 42,700 loose cubic
7 yards (cy) of soil that would be exported at a rate of approximately 80, 70-foot long belly dump
8 trucks (and associated trailers) per day for a 10-week period. In total approximately 4,700 heavy
9 haul trucks would be used to export materials from the Project site during a 16-week period over
10 the total 9-month duration of Phase 1 and Phase 2.

11 During Phase 3 and Phase 4 of construction, the largest truck volumes would be associated with
12 concrete trucks, with an estimated total of up to 140 concrete trucks accessing the Project site on
13 each of the 18 separate concrete pour days. This would result in a total of 2,520 concrete trucks
14 accessing the Project site over the total 10-month duration of Phase 3 and Phase 4. However, as
15 previously described, the Applicant has proposed concrete pours to occur during the late evening
16 hours (i.e., 7:00pm to 3:00am) in order to reduce potential effects on traffic congestion within the
17 Downtown.

18 Total truck traffic accessing the Project site along haul routes and delivery routes may range from
19 7,000 to 7,500 trucks over 19 months, when accounting for heavy haul trucks, concrete trucks, and
20 trucks delivering materials and equipment. While the overall volume of trips would be relatively
21 low compared to average daily traffic along the haul route, large heavy haul trucks can
22 disproportionately interfere with traffic flows and roadway operations due to their large size and
23 turning limitations. For example, such trucks may occupy substantial length of a given turn lane
24 or may have difficulty negotiating tight turns, both with potential to increase short-term traffic
25 congestion or delays.

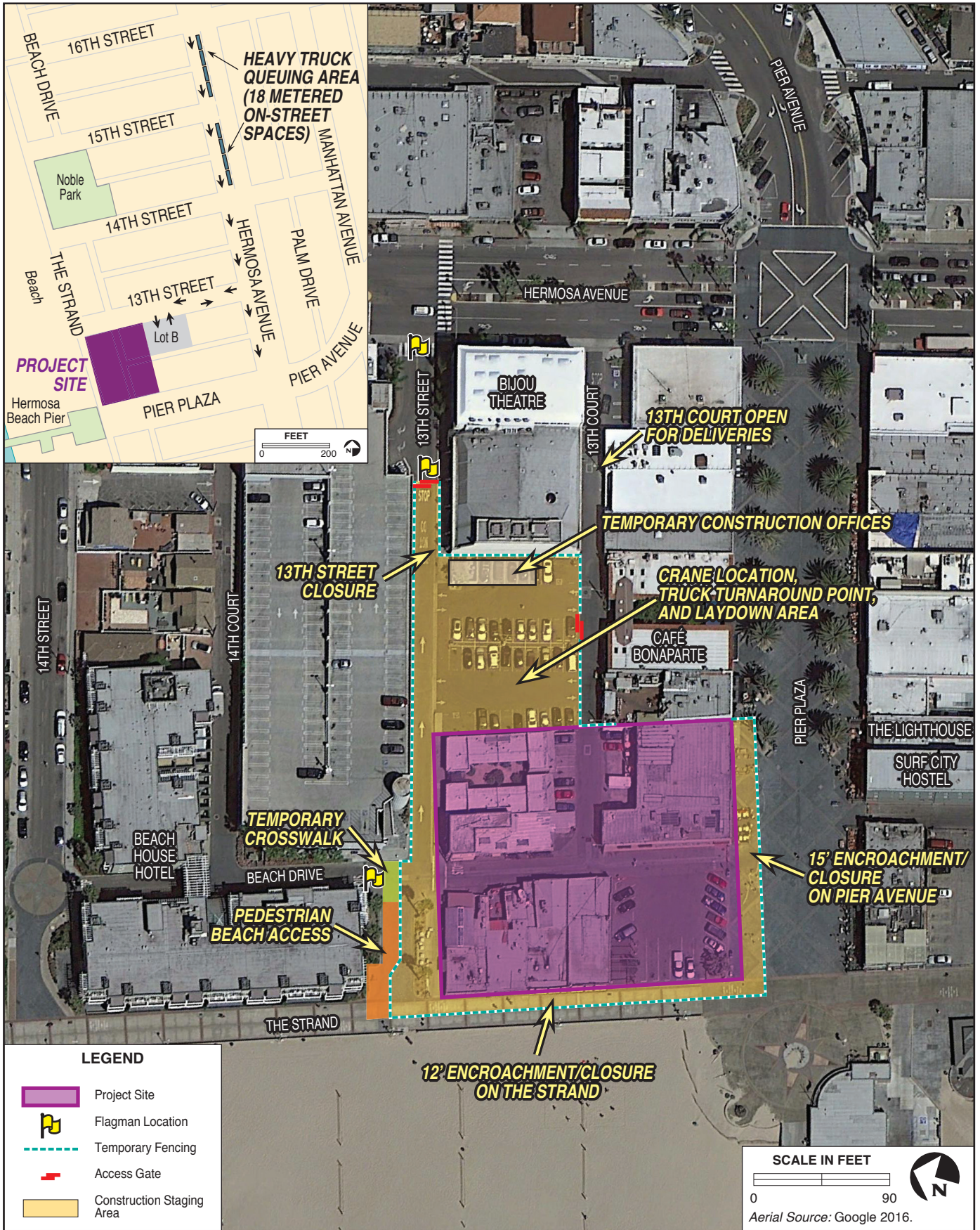
26 Direct heavy truck access to the Project site would be provided via two construction entrances on
27 13th Street and Beach Drive, with access to 12th Street off of Hermosa Avenue (see Figure 3.13-
28 3). Regional heavy haul truck traffic would enter the South Bay area via I-405 and would exit on
29 Rosecrans Avenue, Inglewood Avenue, or State Route 107 (SR 107) traveling westbound along
30 Rosecrans Avenue, Manhattan Beach Boulevard, or Artesia Boulevard and turning southbound on
31 North Aviation Boulevard. From North Aviation Boulevard inbound trucks would turn westbound
32 on Artesia Boulevard that merges into Gould Avenue, southbound along Hermosa Avenue, and
33 westbound along 13th Street. Outbound haul trips would follow 13th Street and turn southbound on
34 Hermosa Avenue to eastbound Herondo Street, turning northbound on PCH, eastbound on South

1 Aviation Boulevard, and eastbound on Artesia Boulevard to access the I-405 (refer to Figure 2-
 2 12). Alternative inbound and outbound haul routes are discussed in Section 5.4, *Alternatives*
 3 *Considered but Discarded*. The potential alternative haul routes would not effectively reduce
 4 *potentially significant* impacts to residential areas and/or would not adequately accommodate
 5 heavy haul truck trips due to limited left turn lane capacity, and particularly inadequate turning
 6 radius for large haul trucks which would not be able to negotiate certain turns.

7 Heavy haul truck trips would generate additional traffic near the Project site and along the haul
 8 route, resulting in additional vehicle delays at surrounding intersections and along surrounding
 9 roadways during the construction period. Between I-405 and PCH, inbound trucks using this haul
 10 route would traverse a mix of four- to six-lane arterials that carry large volumes of traffic
 11 (including larger trucks) through a mix of commercial and residential areas. For example,
 12 Rosecrans is a six- to eight-lane arterial, while North Aviation Boulevard and Artesia Boulevard
 13 are both four- to six-lane arterials.



14 For outbound trucks, with the exception of a wide, well-developed segment of two-lane Herondo
 15 Street, these trucks would use wider more heavily traveled four-lane arterials such as Hermosa
 16 Avenue, PCH, and Aviation Boulevard before returning to the haul route on Artesia. Such streets
 17 typically accommodate higher volumes of heavy trucks with wider travel lane widths, straight
 18 alignments and intersection turn lanes. Heavy haul trucks may occupy turn lanes with limited
 19 capacity, particularly if operating in multiple truck “platoons,” increasing queue lengths that may
 20 extend outside of turn lanes, incrementally increasing delays for motorists materially interfering
 21 with traffic flows along haul routes during periods of high levels of truck activity. However, these
 22 four- to six-lane arterials are typically designed to accommodate truck traffic and daily truck
 23 volumes would be relatively low, estimated at a maximum of roughly 80 heavy haul trucks
 24 occurring on any one day along the inbound and outbound routes.



Construction Staging and Access Plan

FIGURE 3.13-3

1 Of the intersections included in the traffic
 2 study, only PCH & Aviation Boulevard
 3 currently operates at LOS E during the
 4 existing AM peak hour, the addition of 8
 5 truck trips between 8:00am and 9:00am (i.e.,
 6 the 1-hour period where the construction
 7 timing overlaps the AM peak hour) would
 8 not be anticipated to substantially degrade
 9 intersection operations in this location. In
 10 particular, this is because these trucks would
 11 be turning right, which is not considered a
 12 critical turning movement at this
 13 intersection.



Approximately 80 outbound heavy haul truck trips would turn right from PCH onto Aviation Boulevard; however, only 8 of these trips would occur during the AM peak hour when the intersection operates at LOS F. Further, the right-turn at this intersection is not considered a critical turning movement due to the protected right turn lane, which would also provide adequate turning radius for a haul truck.

14 However, for inbound trucks, west of PCH,
 15 a 4,000-foot-long segment of Gould Avenue
 16 between Valley Drive and Hermosa Avenue
 17 becomes a narrow 24-foot-wide two-lane
 18 street. This segment of Gould Avenue is
 19 lined with single- and multi-family homes within on-street parking on one or both sides of the
 20 paved width. Additionally, this roadway segment has a relatively steep grade of approximately 7
 21 percent. West of Valley Drive, Gould Avenue supports closely spaced residential driveways with
 22 cars often parked “head in,” requiring backing into traffic. Valley Park, also located along this
 23 segment of Gould Avenue, supports approximately 30 perpendicular on-street parking spaces, with
 24 motorists also required to back into traffic.

25 Heavy haul trucks using Gould Avenue would interact with cars backing out of residential
 26 driveways as well as those backing out of on-street parking spaces serving Valley Park. The
 27 potential for pedestrian-truck conflicts also exists in this area as children and families cross Gould
 28 Drive to access Valley Park. The westbound side of Gould Drive opposite Valley Park lacks
 29 sidewalks and further west the westbound sidewalks are narrow, with just 2 to 4 feet of pavement
 30 creating additional potential for pedestrian conflicts. Thus, the introduction of relatively high
 31 volumes of heavy haul truck traffic through this residential area may create traffic hazards and
 32 *potentially significant* impacts.



Between Valley Drive and Hermosa Avenue Gould Avenue along the inbound truck route is a narrow 24-foot wide roadway. This segment of Gould Avenue is bordered by residential homes with multiple driveways as well as parallel and head-in parking spaces along the roadway. This segment also passes by Valley Park, which is heavily used by local residents. Crosswalks are provided at Valley Drive and Morningside Drive; however, pedestrians often use the roadway taking a shorter path to the park across the street, or walking on the street to access their vehicles.

1 Prior to directly accessing the Project site, heavy haul trucks would proceed south along a four-
2 lane segment of Hermosa Avenue and queue along approximately 450 feet of the southbound side
3 of the center median on Hermosa Avenue between 14th Street and 16th Street, until called on by
4 the contractor to export material. Large heavy haul trucks pulling over to queue and pulling out
5 into traffic could potentially interfere with traffic flows along this mixed residential and
6 commercial segment of Hermosa Avenue. However, the Applicant-prepared Construction
7 Management Plan provides for traffic control measures at this location. For example, while heavy
8 haul trucks would queue by existing small businesses and residences the vehicles would not block
9 driveways or otherwise impede access to these adjacent properties. While large trucks pulling out
10 into traffic could potential intermittently slow traffic flow, the intersections along Hermosa
11 Avenue operate at LOS A during the weekday AM and PM peak hours, indicating that traffic along
12 Hermosa Avenue in this area is relatively free flowing. As such, with the incorporation of traffic
13 control measures, overall impacts to traffic flow along Hermosa Avenue would be *less than*
14 *significant*.

15 Inbound trucks turning off of Hermosa Avenue onto 13th Street could interfere with traffic flow as
16 trucks execute wide left turns, potentially causing vehicular conflicts with cars exiting or turning
17 onto 13th Street. While such activity is typical of major urban construction the extended duration
18 of heavy haul truck and concrete truck activities could materially interfere with local traffic flows.
19 The Applicant-prepared Construction Management Plan notes that flaggers would be stationed at
20 the intersection of 13th Street & Hermosa Avenue and at the construction entrance gate during all
21 major trucking operations to manage traffic flows, reducing potential turning movement conflicts.
22 Construction trucks could travel along the truck route during the AM peak hour but their activity

1 would be completed by approximately 3:00pm, so they would not generate trips within in the PM
2 peak hour. Further, no loading, deliveries, or hauling would occur on Saturdays, and consistent
3 with HBMC Chapter 8.24.050, no construction would occur on Sundays, or Federal holidays.
4 Nevertheless, as these turning movements may still create traffic hazards and materially interfere
5 with local traffic flows, they could result in *potentially significant* impacts.

6 During Phase 3 of construction, three separate concrete pours occurring over a 2-week period
7 would be required for the concrete slab foundation During and Phase 4 of construction an
8 additional 15 pours would occur over a 10-week period for the suspended concrete floor slabs,
9 resulting in a total of 18 separate pours occurring over a period of 12 weeks. Due to the number of
10 concrete trucks necessary to pour the concrete mat foundations and concrete superstructure for the
11 proposed mixed-use hotel (i.e., approximately 200 trucks per event), the concrete pours are
12 proposed to occur during the late evening hours (i.e., 7:00pm to 3:00am) in order to reduce
13 potential effects on traffic congestion along the haul route and within the Downtown (refer to
14 Impact NOI-1 for noise impacts associated with evening use of concrete trucks, both along the
15 haul route and in the Downtown). Two ready-mix delivery and pump staging locations would be
16 established for each pour at 13th Street, just to the west of Beach Drive, and at the westernmost
17 area of Lot B. Concrete trucks with standard mixer capacities of 10 cy, would arrive to the site
18 every 3 minutes with approximately 200 cy of concrete poured per hour. Each individual pour
19 event would place a total of 2,000 cy of concrete. However, movements of trucks from the staging
20 area along the center median on southbound Hermosa Avenue between 14th and 16th Streets to 13th
21 Street and in and out of the Project site, even though controlled by construction flaggers, could
22 potentially cause temporary impacts to traffic flow on Hermosa Avenue, particularly during the
23 evening hours between 7:00pm and 10:00pm. In particular on Thursday and Friday nights or
24 during events on Pier Plaza when restaurants, bars, and nightclubs are most active, trucks entering
25 and leaving 13th Street every 3 minutes could cause disruption in traffic flows given the tight turn
26 into and out of 13th Street and potential conflicts with vehicles existing Lot C via 13th Street. As
27 such, operation of concrete trucks for nighttime pours during these evening periods of heightened
28 activity and would be considered *potentially significant*. During the late evening hours Monday
29 through Wednesday, concrete trucks would not be likely to affect vehicle delays as there are less
30 vehicles on the surrounding roadway network during these hours and impacts would be *less than*
31 *significant*.

1 *Construction Worker Commutes*

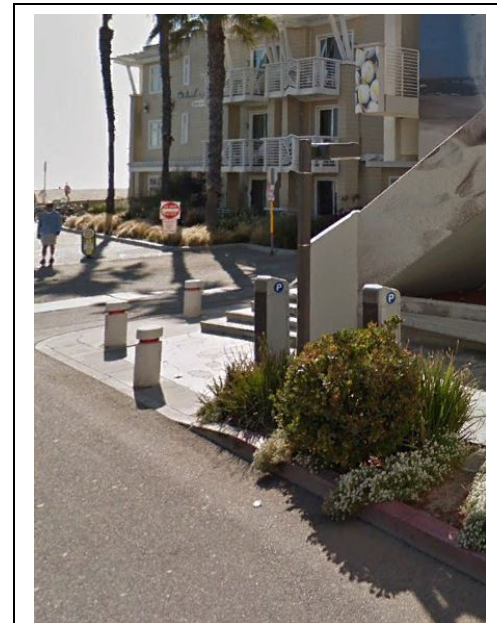
2 As described in Section 2.5.6, *Construction Staffing and*
3 *Parking*, an estimated 30 to 120 workers would be on-
4 site at any time during construction hours, with a
5 maximum of 120 workers during Phase 5. Construction
6 workers would generally be on-site prior to the
7 commencement of daily construction activities at 8:00am
8 in order to park, unload, and set-up equipment and
9 materials, and the vast majority would leave the Project
10 site around 3:00pm. As such, the majority of these trips
11 would avoid the AM and PM peak hours. Temporary
12 traffic from construction worker trips on the surrounding
13 transportation network during the AM and PM peak
14 hours is therefore not expected to cause significant traffic
15 impacts. In addition, a combination of on- and off-site
16 construction parking facilities (e.g., AES Redondo Beach
17 Natural Gas Power Plant, Vons parking lot, dedicated
18 Beach House parking in Lot C) could potentially be used
19 if agreements with land owners are obtained by the Applicant. All on- and off-site parking
20 locations would be identified in a City-approved
21 Construction Management Plan. Potential impacts to
22 coastal access parking associated with construction
23 working parking is discussed in further detail in Section
24 3.3, *Recreation*, under Impact REC-1.

25 *Pedestrian and Bicycle Impacts*

26 Construction activities, including road closures, sidewalk
27 closures, off-site utility construction, infringement into
28 construction easements on Pier Plaza and The Strand, and
29 construction related traffic, particularly heavy trucks,
30 could interfere with pedestrian and flows within the
31 vicinity of the Project site. With the exception of 13th
32 Street and construction easements encroaching onto The
33 Strand and Pier Plaza, all other sidewalks within the
34 immediate Project vicinity would be maintained during



Outbound heavy haul truck trips would pass through the Hermosa Avenue & Pier Avenue, which is a pedestrian scramble intersection, and could interfere with pedestrian and bicycle flows.



Throughout the 24- to 30-month construction period, pedestrian access would be maintained from Lot C with a temporary crosswalk across Beach Drive.

1 construction. As described in Section 2.5.5, *Construction Staging, Site Access, and Safety*, 8-foot
2 high temporary construction fencing would be installed along the boundaries of the Project site
3 and staging areas (e.g., Lot B) on 13th Street, and onto construction easements along The Strand,
4 and Pier Plaza. This temporary site fencing would encroach by up to 12 feet on The Strand and up
5 to 15 feet on Pier Plaza and would constrain pedestrian and bicycle traffic in these heavily used
6 areas, which already experience congestion particularly during weekends, events and festivals, and
7 the peak summer months. In order to limit the temporary congestion along The Strand during
8 construction, the Applicant has proposed to temporarily widen The Strand seaward by 12 feet
9 using beach mats, portable pathways, or modular boardwalk decking to accommodate regular
10 bicycle and pedestrian through traffic. While Project construction would temporarily interfere with
11 and at times temporarily impede beach access for pedestrians and bicyclists on Pier Avenue and
12 at 13th Street west of Beach Drive from Lot C, these areas would continue to remain open for
13 public use. Additionally, a temporary crosswalk would be provided to access Beach Drive from
14 Lot C to maintain pedestrian access to The Strand. However, frequent heavy truck traffic entering
15 and exiting the intersection of 13th Street & Hermosa Avenue could interfere with pedestrian and
16 bicycle flows along southbound Hermosa Avenue as well as the Hermosa Avenue & Pier Plaza
17 pedestrian scramble, particularly during periods of high pedestrian activity such as events and
18 festivals. The closure of Beach Drive and fencing of Lot B would interrupt or re-route pedestrian
19 traffic between Lot C and Pier Plaza to The Strand or Hermosa Avenue. Pedestrians walking from
20 Lot C to Pier Plaza along Hermosa Avenue would intermingle with heavy truck traffic, including
21 concrete trucks during late evening concrete pours, creating potential conflicts with patrons
22 entering and exiting the entertainment district. In addition, trucks exiting the Project site would
23 cross the Hermosa Avenue & Pier Plaza intersection pedestrian scramble. While separate signal
24 phases for pedestrians would minimize truck-pedestrian conflicts, during special events or peak
25 evening periods such as Thursday or Friday nights, conflicts with high pedestrian use could occur.
26 Patrons arriving via Uber, Lyft, or taxi could add to potential conflicts as they are dropped off or
27 picked up, particularly during late evening concrete pours. The Applicant's preliminary draft
28 Construction Management Plan indicates that flaggers would be present at three locations in 13th
29 Street; the intersection with Beach Drive near the main exit from Lot C, at the gated construction
30 entrance, and at Hermosa Avenue (see Appendix I, Figure 3.5 of the Applicant's Construction
31 Management Plan). Although construction flaggers would help reduce impacts to pedestrians and
32 bicyclists, concrete pours during peak utilization periods for Pier Plaza, particularly on Thursdays
33 during the summer and Friday and Saturday nights year-round could create potential pedestrian
34 conflicts and safety hazards. During events and festivals, these impacts could be compounded with
35 potential pedestrian and heavy truck conflicts along Hermosa Avenue and additional pedestrian

1 congestion along The Strand and Pier Avenue. Consequently, these impacts are considered
2 *potentially significant*.

3 *Construction Impact Summary*

4 Project construction activities, which have been analyzed based on the initial Applicant-prepared
5 Construction Management Plan, could create potentially significant short-term impacts in the
6 immediate vicinity and along major access routes, particularly due to potential heavy haul truck
7 and concrete truck traffic.

8 Heavy haul trucks and concrete trucks transiting the two-lane segment of Gould Avenue between
9 Valley Drive and Hermosa Avenue may create conflicts and safety issues associated with cars,
10 existing public and private parking areas, and pedestrians. Although these impacts would be
11 temporary, they would be prolonged and considered *potentially significant* particularly due to
12 heavy haul truck traffic transiting residential areas and construction activities materially impeding
13 traffic flows. Additionally, despite the presence of a flagger, large trucks negotiating the tight turn
14 into and out of 13th Street off of Hermosa Avenue would slow and disrupt traffic flows and may
15 require oncoming vehicles exiting Lot C to back up, increasing delays, vehicle queues, and overall
16 congestion. Pedestrians crossing 13th Street could also experience conflicts with trucks entering
17 and exiting the construction zone and trucks moving through the pedestrian scramble at Hermosa
18 Avenue & Pier Avenue may also cause vehicular conflicts. In addition, potential construction
19 traffic occurring simultaneously with events and festivals, common within the Downtown during
20 the high-tourist season, could result in *potentially significant* term impacts in the Project vicinity
21 due to heavy haul and concrete truck conflicts with vehicles, pedestrians, and bicyclists. For
22 example, heavy haul trucks queuing on Hermosa Avenue and pulling into and out of traffic during
23 summer would disrupt traffic flows and the Applicant-prepared Construction Management Plan
24 measures only provide general guidance on how to manage this traffic flow.

25 The implementation of mitigation measure MM TT-1 would require City approval of a Final
26 Construction Management Plan including construction traffic routing and control, parking
27 management, street closures, pedestrian/bicycle access, and vehicular and pedestrian safety to
28 minimize the effects of construction to the satisfaction of the Community Development
29 Department. This Construction Management Plan would be finalized to reflect conditions in the
30 Project vicinity (e.g., the presence of street festivals or utility improvements) during the Project
31 construction activities, which are anticipated to occur over the 24- to 30-months. More specifically,
32 the plan would include thorough descriptions and depictions of travel lane and street-parking
33 configurations; warning, regulatory, guide, and directional signage; and designated detours for
34 sidewalks, bicycle lanes, and vehicle lanes, as well as detailed City-approved plans for re-routing

1 pedestrians and bicycles during construction. Additionally, the plan would define construction
2 traffic schedules, permitted construction hours, haul routes and alternatives, approved truck
3 queuing/staging locations, on-site and off-site construction parking facilities, construction
4 access/export locations, traffic control procedures, and community outreach/notifications. While
5 MM TT-1 would reduce the Project's construction traffic impact to the maximum extent
6 practicable, potential impacts associated with heavy haul trucks and concrete trucks traveling along
7 Gould Avenue and entering and existing the Project site via 13th Street & Hermosa Avenue would
8 remain *significant and unavoidable*.

9 Cumulative Impacts

10 Depending on the timing of Project construction, construction activities could overlap with various
11 large-scale developments within the City and the surrounding vicinity. In particular, heavy haul
12 truck activities associated with the proposed North School Reconstruction could compound
13 potential Project-related construction impacts along Gould Drive. The proposed North School
14 Reconstruction project, located at 26th Street & Morningside Drive, would adding up to 15
15 additional heavy haul trucks per day during construction (Hermosa Beach City School District
16 2017), which could intensify vehicle- and pedestrian-truck conflicts with the 80 inbound heavy
17 haul trucks per day from the proposed Project.

18 The Skechers Design Center and Offices Project would require the use of haul equipment and
19 delivery trucks during demolition and construction. Additionally, construction worker traffic
20 would temporarily add trips to the roadway infrastructure. The greatest potential for impacts to the
21 adjacent street system would occur during the excavation construction period estimated to last 24
22 months. Construction activities would generate significant impacts along SR 1 at its intersection
23 with Keats Street, Tennyson Street, and 30th Street; however, no heavy haul trips would be added
24 to Gould Avenue (City of Hermosa Beach 2018).

25 The Redondo Waterfront Project would add construction related trips along Herondo Street and
26 Pacific Coast Highway. Peaking hauling activity for the north site and south site is anticipated to
27 generate an average of approximately 110 heavy haul trucks on the peak day of activity. Peak
28 construction activity – including construction worker trips – would generate approximately 1,895
29 daily trips; however, given that a majority of the existing uses would not be operational during
30 project construction and the number of construction related vehicle trips would be less than what
31 would otherwise occur under existing conditions (i.e., existing uses being operations), no
32 significant traffic impacts are anticipated from the Redondo Waterfront Project (City of Redondo
33 Beach 2016).

1 Mitigation Measures

2 **MM TT-1** *Final Construction Management Plan.* The Applicant shall prepare a Final
3 Construction Management Plan (CMP) for City review and approval prior to
4 issuance of a demolition permit to address and manage traffic during construction
5 which shall build upon the initial Applicant-prepared CMP and be designed to
6 accomplish the following to the satisfaction of the City:

- 7 • *Ensure safety for both those constructing the project and the surrounding*
8 *community;*
- 9 • *Minimize traffic impacts on the surrounding roadway network to the maximum*
10 *extent feasible during the 24- to 30-month construction period;*
- 11 • *Minimize truck traffic through residential neighborhoods;*
- 12 • *Minimize coastal access parking impacts both to public parking and access to*
13 *private parking to the greatest extent practicable; and*
- 14 • *Avoid conflicts with planned events and festivals along Pier Plaza to the*
15 *greatest extent possible to minimize traffic and parking impacts.*

16 *The plan shall, at a minimum, include the following:*

17 *Ongoing Requirements throughout the Duration of Construction*

- 18 • *The CMP shall include thorough descriptions and depictions of travel lane and*
19 *street-parking configurations; warning, regulatory, guide, and directional*
20 *signage; and designated detours for sidewalks, bicycle lanes, and vehicle lanes,*
21 *as necessary. The plan shall include specific information regarding the*
22 *Project’s construction activities that may disrupt normal pedestrian and traffic*
23 *flow and include specific measures to minimize these disruptions to the*
24 *maximum extent feasible. Such plans shall be reviewed and approved by the*
25 *Community Development Department and City Department of Public Works*
26 *prior to issuance of a demolition permit and implemented in accordance with*
27 *this approval.*
- 28 • *Work within the public right-of-way shall be performed between 9:00am and*
29 *4:00pm in order to avoid the AM and PM peak hours, unless work outside of*
30 *these times receives advanced approval from the City. This work includes dirt*
31 *and demolition material hauling and construction material delivery. Work*

1 *within the public right-of-way outside of these hours shall only be allowed only*
2 *after the issuance of an after-hours construction permit from the City.*

- 3 • *At the discretion of the City, construction work shall not be permitted during*
4 *City-approved or City-sponsored large events or festivals (e.g., Fourth of July)*
5 *on Pier Plaza or the beach.*
- 6 • *Streets and equipment shall be cleaned in accordance with established City*
7 *Department of Public Works requirements.*
- 8 • *Heavy haul trucks and concrete trucks shall only travel on a City-approved*
9 *construction route. Truck queuing/staging shall only be allowed at City-*
10 *approved locations. Limited queuing may occur on the construction site itself.*
11 *In order to ensure public safety and maintain vehicular, pedestrian and bicycle*
12 *traffic flows, during all major haul truck and concrete truck operations, the*
13 *Applicant shall ensure that:*
 - 14 ○ *Evening and early morning concrete pours shall be limited to Monday*
15 *through Wednesday, with pours only allowed Thursday in the offseason*
16 *from Labor Day to Memorial Day. No concrete pours shall be permitted*
17 *Friday through Sunday or during Federal holidays.*
 - 18 ○ *A construction flagger shall be stationed at the Lot C exit to ensure*
19 *coordination managing traffic exiting Lot C with the proposed flagger at*
20 *the intersection of 13th Street & Hermosa Avenue. This flagger may also*
21 *manage the construction gate, but the CMP shall provide detailed methods*
22 *to address conflicts between the Lot C entrance and truck traffic, including*
23 *coordination efforts between the construction flaggers.*
 - 24 ○ *Traffic cones and warning signs shall be posted along southbound Hermosa*
25 *Avenue at the proposed truck queuing location along the center median*
26 *between 14th Street and 16th Street.*
 - 27 ○ *All haul truck drivers receive a briefing at the beginning of each individual*
28 *hauling operation or individual concrete pour regarding traffic safety*
29 *concerns along Gould Avenue, Hermosa Avenue, and the high level of*
30 *pedestrian and bicyclist activity anticipated to be encountered in the*
31 *immediate Project vicinity, including the pedestrian scramble at Pier Plaza*

1 *& Hermosa Avenue. Drivers shall be provided with a map of these sensitive*
2 *locations for reference.*

- 3 • *Materials and equipment shall be minimally visible to the public; the preferred*
4 *location for materials is to be on-site, with a minimum amount of materials*
5 *within a work area in the public right-of-way, subject to a current City permit.*
- 6 • *Any requests for work before or after normal construction hours within the*
7 *public right-of-way shall be subject to review and approval through the City*
8 *building office.*

9 *Project Coordination Elements That Shall Be Implemented Prior to*
10 *Commencement of Construction*

- 11 • *The Applicant shall coordinate construction work with affected agencies in*
12 *advance of the initiation of construction activities.*
- 13 • *The Applicant shall obtain City approval of any haul routes for earth, concrete,*
14 *or construction materials and equipment hauling.*
- 15 • *The Applicant shall obtain an Excavation Permit, Street/Lane Closure Permit,*
16 *Sewer Permit, Demolition Permit, and any other applicable permits for*
17 *construction work requiring encroachment into public rights-of-way, detours,*
18 *or any other work within the public right-of-way.*
- 19 • *The Applicant shall provide timely notification of construction schedules to all*
20 *affected agencies (e.g., public and private transit, Hermosa Beach Fire*
21 *Department [HBFD], Hermosa Beach Police Department [HBPD], City*
22 *Department of Public Works, and Community Development Department) and*
23 *to all owners and residential and commercial tenants of property within a*
24 *radius of 500 feet.*
- 25 • *The Applicant shall advise the traveling public of impending construction*
26 *activities (e.g., information signs, portable message signs detailing haul truck*
27 *scheduling, media listing/notification, mailings, e-mail, and social media and*
28 *implementation of an approved CMP). Signs shall be posted at the following*
29 *locations:*
 - 30 ○ *The intersection of Beach Drive and the Lot C staircase;*
 - 31 ○ *At the vehicular exit from Lot C;*

- 1 ○ *The Strand at 13th Street and 11th Street;*
- 2 ○ *Hermosa Avenue north of 13th Street;*
- 3 ○ *West of the intersection of Gould Drive and PCH;*
- 4 ○ *West of the intersection of Valley Drive and Gould Avenue;*
- 5 ○ *The Valley Park parking area along Gould Avenue; and*
- 6 ○ *Gould Drive east of Hermosa Avenue.*
- 7 • *The Applicant shall mail or e-mail notification of pending construction*
- 8 *schedule and activities to business along Hermosa Avenue between 11th Street*
- 9 *and 14th Street, business along Pier Plaza and to residents along Gould Avenue*
- 10 *between Pacific Coast Highway (PCH) and Hermosa Avenue. The notice shall*
- 11 *include details on the dates of all projected major haul truck and cement truck*
- 12 *operations along with contact information for the Applicant's construction*
- 13 *manager. Major alterations in planned schedules shall require additional*
- 14 *noticing.*

15 **Plan Requirements and Timing.** The Final CMP shall be subject to review and
 16 approval by the following City departments including: Community Development
 17 Department, City Department of Public Works, HBFD, and HBPD to ensure that
 18 the final plan has been designed in accordance with this mitigation measure. This
 19 review shall occur prior to the issuance of any City permits related to on-site
 20 preparation, demolition, grading, or construction.

21 **Monitoring.** The Community Development Department and City Department of
 22 Public Works compliance staff shall observe and ensure compliance with the Final
 23 CMP, specifications, and requirements during construction.

24 Residual Impacts

25 Implementation of mitigation measure MM TT-1 would minimize impacts related to construction
 26 traffic that would occur over the 24- to 30-month construction period. Additionally, public notices,
 27 designated detour routes, and Applicant-provided construction flaggers would ensure continued
 28 pedestrian, bicycle, and vehicle safety within the vicinity of the Project site throughout the during
 29 of construction. However, implementation of this mitigation measure would not eliminate impacts
 30 entirely, particularly the impacts to residential areas along Gould Avenue and the commercial and
 31 residential areas along Hermosa Avenue in the immediate vicinity of the Project site. The

1 temporary, but prolonged impacts in these locations would remain *significant and unavoidable* as
 2 construction-related activities could materially interfere with area traffic flow (e.g., vehicles
 3 turning on 13th Street, exiting Lot C, or pulling out of driveways or parking spaces along Gould
 4 Avenue) and interfere with pedestrian and bicycle flows (e.g., along The Strand and Pier Plaza).

5 Impact Description

6 *Would the project conflict with an applicable plan, ordinance or policy establishing measures of*
 7 *effectiveness for the performance of the circulation system, taking into account all modes of*
 8 *transportation including mass transit and non-motorized travel and relevant components of the*
 9 *circulation system, including but not limited to intersections, streets, highways and freeways,*
 10 *pedestrian and bicycle paths, and mass transit?*

11 **TT-2 Under Existing (2016) Plus Project conditions, increased traffic generated by**
 12 **the proposed Project would result in a *significant and unavoidable* impact at 1**
 13 **of the 15 study intersections during the Sunday afternoon peak hour.**

14 In order to evaluate the potential impacts of the proposed Project compared to existing conditions
 15 within the vicinity of the Project site, net trip generation was calculated assuming Existing (2016)
 16 Plus Project traffic. Project trip generation estimates were determined based on the methodology
 17 discussed in Section 3.13.3, *Impact Assessment and Methodology*. Existing uses on the Project site
 18 proposed for removal include 9,596 sf of restaurant uses, 6,060 sf of retail uses, and eight studio
 19 apartment units (i.e., West Bay Apartments), which currently generate between 50 to 81 vehicle
 20 trips per hour, depending on the time period analyzed (see Appendix I; Tables 4.1 to 4.5 of the
 21 Traffic Study). Accounting for the removal of these existing uses, an estimated net total of 113
 22 AM peak hour vehicle trips, 96 PM peak hour vehicle trips, 96 Friday PM peak hour vehicle trips,
 23 109 Saturday midday peak hour vehicle trips, and 78 Sunday afternoon peak hour vehicle trips
 24 would be generated by the proposed Project (see Table 3.13-12).

25 **Table 3.13-12. Existing (2016) Plus Project Generated Traffic**

Peak Hour	Project Trips	Existing Uses	Net Trips Generated
AM	117	-4	113
PM	146	-50	96
FRI	146	-50	96
SAT	179	-70	109
SUN	159	-81	78

26 Source: The Mobility Group 2017.

1 Traffic generated by the Project (see Appendix I; Figures 4.5 to 4.9 of the Traffic Study) was then
2 added to Existing Year (2016) traffic volumes (see Appendix I; Figures 2.3 to 2.7 of the Traffic
3 Study) to obtain Existing (2016) Plus Project traffic for peak hours at each of the study
4 intersections (see Appendix I; Figures 4.16 to 4.20 of the Traffic Study).

5 The intersection LOS analysis for the Existing (2016) Plus Project conditions is summarized in
6 Table 3.13-13 for each of the time periods analyzed. This table also compares the LOS for Existing
7 (2016) Without Project conditions, shows the increase in V/C ratios or delay at each intersection
8 due to the Project, and identifies if the increase in traffic constitutes a significant impact.

9 The Existing (2016) Plus Project conditions analysis found that 14 of the 15 study intersections
10 analyzed using the City's adopted ICU methodology for signalized intersections and HCM
11 methodology at unsignalized intersections would be expected to operate at an acceptable LOS (see
12 Figure 3.13-4, which depicts the worst-case LOS as well as the proposed Project's contribution to
13 these operations). A change in ICU value (i.e., an increase in V/C ratio of 0.022) caused by the
14 proposed Project at the signalized intersection of Hermosa Avenue & Pier Avenue during the
15 Sunday afternoon peak hour would exceed the threshold for significant impact (refer to Table 3.13-
16 6), although the intersection would continue to operate at LOS D.

17 *AM Peak Hour*

18 During the AM peak hour, all study intersections would continue to operate at LOS D or better
19 with the implementation of the proposed Project, except for the signalized intersection at PCH &
20 Aviation Boulevard, which would operate at LOS E with and without the proposed Project. The
21 proposed Project would not cause a change in LOS at any intersection, except for the stop-
22 controlled intersection at Hermosa Avenue & 8th Street where the LOS would change from LOS A
23 to LOS B. The change in ICU value would not exceed the thresholds for significant impact at any
24 location. Therefore, the Project would not cause any significant impacts in the AM peak hour.

25 *PM Peak Hour*

26 During the PM peak hour, all study intersections would continue to operate at LOS D or better with
27 the implementation of the proposed Project. The Project would not cause a change in LOS at any
28 intersection, except for the stop-controlled intersections at Hermosa Avenue & 8th Street, where the
29 LOS would change from LOS B to LOS C, Hermosa Avenue & 10th Street, where the LOS would
30 change from LOS A to LOS B, Manhattan Avenue West & Pier Avenue, where the LOS would
31 change from LOS A to LOS B, and PCH & Pier Avenue where the LOS would change from LOS B



Existing (2016) Plus Project Intersection Impacts

FIGURE 3.13-4

1 to LOS C. However, the change in ICU value would not exceed the thresholds for significant impact
 2 at any location (see Table 3.13-13). Therefore, the Project would not cause any significant
 3 intersection impacts in the PM peak hour.

4 **Table 3.13-13. Intersections Significantly Impacted by Adverse Changes to Existing**
 5 **(2016) Plus Project Peak Hour Levels of Service**

No.	Intersection	Type ¹	Peak Hour	Existing Without Project (2016)			Existing Plus Project (2016)			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
1	Hermosa Avenue & 16 th Street	3-Way Stop	AM	-	8.8	A	-	8.9	A	0.1	No
			PM	-	9.5	A	-	9.6	A	0.1	No
			FRI	-	9.4	A	-	9.5	A	0.1	No
			SAT	-	9.1	A	-	9.2	A	0.1	No
			SUN	-	10.5	B	-	10.7	B	0.2	No
2	Hermosa Avenue & 14 th Street	Signalized	AM	0.255	-	A	0.257	-	A	0.002	No
			PM	0.314	-	A	0.316	-	A	0.002	No
			FRI	0.316	-	A	0.317	-	A	0.001	No
			SAT	0.281	-	A	0.287	-	A	0.006	No
			SUN	0.439	-	A	0.443	-	A	0.004	No
3	Hermosa Avenue & 13 th Street	Signalized	AM	0.237	-	A	0.299	-	A	0.062	No
			PM	0.383	-	A	0.442	-	A	0.059	No
			FRI	0.375	-	A	0.434	-	A	0.058	No
			SAT	0.405	-	A	0.467	-	A	0.062	No
			SUN	0.431	-	A	0.451	-	A	0.020	No
4	Hermosa Avenue & Pier Avenue	Signalized	AM	0.621	-	B	0.656	-	B	0.035	No
			PM	0.682	-	B	0.704	-	C	0.022	No
			FRI	0.668	-	B	0.690	-	B	0.022	No
			SAT	0.689	-	B	0.720	-	C	0.031	No
			SUN	0.832	-	D	0.854	-	D	0.022	Yes
5	Hermosa Avenue & 11 th Street	Signalized	AM	0.282	-	A	0.292	-	A	0.010	No
			PM	0.465	-	A	0.475	-	A	0.010	No
			FRI	0.370	-	A	0.379	-	A	0.009	No
			SAT	0.461	-	A	0.473	-	A	0.012	No
			SUN	0.398	-	A	0.402	-	A	0.004	No
6	Hermosa Avenue & 10 th Street	4-Way Stop	AM	-	9.7	A	-	10.0	A	0.3	No
			PM	-	10.0	A	-	10.2	B	0.2	No
			FRI	-	10.3	B	-	10.5	B	0.2	No
			SAT	-	9.6	A	-	9.8	A	0.2	No
			SUN	-	13.9	B	-	14.2	B	0.3	No

1 **Table 3.13-13. Intersections Significantly Impacted by Adverse Changes to Existing (2016)**
 2 **Plus Project Peak Hour Levels of Service (Continued)**

No.	Intersection	Type ¹	Peak Hour	Existing Without Project (2016)			Existing Plus Project (2016)			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
7	Hermosa Avenue & 8 th Street	3-Way Stop	AM	-	10.0	A	-	10.2	B	0.2	No
			PM	-	10.2	B	-	10.4	B	0.2	No
			FRI	-	10.1	B	-	10.3	B	0.2	No
			SAT	-	10.0	A	-	10.2	B	0.2	No
			SUN	-	13.2	B	-	13.5	B	0.3	No
8	Manhattan Avenue West & Pier Avenue	1-Way Stop	AM	-	9.5	A	-	9.6	A	0.1	No
			PM	-	9.8	A	-	10.0	B	0.2	No
			FRI	-	10.2	B	-	10.4	B	0.2	No
			SAT	-	10.9	B	-	11.1	B	0.2	No
			SUN	-	12.5	B	-	12.7	B	0.2	No
9	Manhattan Avenue East & Pier Avenue	1-Way Stop	AM	-	11.5	B	-	11.8	B	0.3	No
			PM	-	12.9	B	-	13.1	B	0.2	No
			FRI	-	12.7	B	-	12.9	B	0.2	No
			SAT	-	13.8	B	-	14.2	B	0.4	No
			SUN	-	23.1	C	-	24.0	C	0.9	No
10	Monterey Boulevard & Pier Avenue	4-Way Stop	AM	-	9.4	A	-	9.5	A	0.1	No
			PM	-	10.3	B	-	10.5	B	0.2	No
			FRI	-	11.1	B	-	11.3	B	0.2	No
			SAT	-	10.9	B	-	11.1	B	0.2	No
			SUN	-	15.8	C	-	16.2	C	0.4	No
11	Valley Drive & Pier Avenue	4-Way Stop	AM	-	13.7	B	-	14.1	B	0.4	No
			PM	-	19.2	C	-	19.9	C	0.7	No
			FRI	-	19.5	C	-	20.1	C	0.6	No
			SAT	-	17.0	C	-	17.8	C	0.8	No
			SUN	-	13.6	B	-	13.9	B	0.3	No
12	Ardmore Avenue West & Pier Avenue	4-Way Stop	AM	-	14.3	B	-	14.6	B	0.3	No
			PM	-	18.5	C	-	19.1	C	0.6	No
			FRI	-	17.0	C	-	17.6	C	0.6	No
			SAT	-	14.4	B	-	14.8	B	0.4	No
			SUN	-	12.3	B	-	12.5	B	0.2	No
13	PCH & Pier Avenue	Signalized	AM	0.657	-	B	0.658	-	B	0.001	No
			PM	0.700	-	B	0.706	-	C	0.006	No
			FRI	0.699	-	B	0.704	-	C	0.005	No
			SAT	0.574	-	A	0.582	-	A	0.008	No
			SUN	0.583	-	A	0.589	-	A	0.006	No

1 **Table 3.13-13. Intersections Significantly Impacted by Adverse Changes to Existing (2016)**
 2 **Plus Project Peak Hour Levels of Service (Continued)**

No.	Intersection	Type ¹	Peak Hour	Existing Without Project (2016)			Existing Plus Project (2016)			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
14	PCH & Aviation Boulevard	Signalized	AM	0.952	-	E	0.963	-	E	0.011	No
			PM	0.820	-	D	0.828	-	D	0.008	No
			FRI	0.823	-	D	0.830	-	D	0.007	No
			SAT	0.821	-	D	0.826	-	D	0.005	No
			SUN	0.765	-	C	0.769	-	C	0.004	No
15	PCH & 8 th Street	Signalized	AM	0.845	-	D	0.846	-	D	0.001	No
			PM	0.758	-	C	0.759	-	C	0.001	No
			FRI	0.793	-	C	0.794	-	C	0.001	No
			SAT	0.617	-	B	06.17	-	B	0.000	No
			SUN	0.591	-	A	0.591	-	A	0.000	No

3 Definitions:

4 V/C – Volume-to-Capacity Ratio; based on the amount of traffic traveling through the intersection, the lane geometries, and
 5 other factors affecting capacity such as one-street parking, bus operations near the intersections, and pedestrian
 6 volumes at the street crosswalks.

7 Delay – Average stopped delay per vehicle, in seconds.

8 LOS – Level of Service; refer to definitions in Tables 3.13-3 and 3.13-4.

9 Notes: ¹ For signalized intersections, V/C ratio and LOS are shown for the intersection as a whole. For unsignalized intersections,
 10 delay values and LOS are shown for worst-case minor (stopped) approach only.

11 ² For the three intersections along PCH, the ICU results are shown for informational purposes for the City of Hermosa Beach, but
 12 the analysis conclusions are based on the HCM results for Caltrans methodology.

13 Source: The Mobility Group 2017.

14 *Friday PM Peak Hour*

15 During the Friday PM peak hour all study intersections would continue to operate at LOS D or
 16 better with the implementation of the proposed Project. The Project would not cause a change in
 17 LOS at any intersection, except for the signalized intersection at PCH & Pier Avenue where the
 18 LOS would change from LOS B to LOS C. The change in ICU value would not exceed the
 19 thresholds for significant impact at any location. Therefore, the Project would not cause any
 20 significant intersection impacts in the Friday PM peak hour.

21 *Saturday Midday Peak Hour*

22 During the Saturday midday peak hour all study intersections would continue to operate at LOS D
 23 or better within the implementation of the proposed Project. The proposed Project would not cause
 24 a change in LOS at any intersection, except for the signalized intersection at Hermosa Avenue &
 25 Pier Avenue where the LOS would change from LOS B to LOS C, and the stop-controlled
 26 intersection at Hermosa Avenue & 8th Street where the LOS would change from LOS A to LOS

1 B. The change in ICU value would not exceed the thresholds for significant impact at any location.
2 Therefore, the Project would not cause any significant impacts in the Saturday midday peak hour.

3 *Sunday Afternoon Peak Hour*

4 During the Sunday afternoon peak hour all study intersections would continue to operate at LOS D
5 or better with the implementation of the proposed Project. The proposed Project would not cause
6 a change in LOS at any intersection. Many intersections would continue to operate at LOS A or
7 LOS B. However, the increase of 0.022 in ICU value (i.e., the increase in V/C ratio) caused by the
8 proposed Project at the signalized intersection of Hermosa Avenue & Pier Avenue would exceed
9 the threshold for significance of 0.020 (refer to Table 3.13-6), although intersection operations
10 would remain at LOS D. Therefore, the Project would cause a *significant* impact at this intersection
11 in the Sunday afternoon peak hour. The change in ICU value would not exceed the thresholds for
12 significant impact at any other location.

13 Mitigation Measures

14 The proposed Project would result in one significant traffic impact during the Sunday afternoon
15 peak hour at the signalized intersection of Hermosa Avenue & Pier Avenue. While the intersection
16 would continue to operate at LOS D, the proposed Project would increase the V/C ratio at the
17 intersection from 0.832 to 0.854. This increase in V/C ratio of 0.022 would slightly exceed the
18 threshold for significance of 0.020 (refer to Table 3.13-6). However, this intersection is currently
19 designed and operated to balance traffic flow with facilitating high volumes of pedestrians and
20 bicyclists in the Downtown Core that access the retail establishments along Pier Avenue, Pier
21 Plaza, and Hermosa Avenue as well as The Strand and the beach. To accomplish these goals,
22 intersection design and operation includes a pedestrian scramble phase where pedestrians can cross
23 the streets on diagonal crosswalks as well as the usual crosswalks. Hermosa Avenue also includes
24 bicycle route with “sharrow” markings on the roadway and accommodates relatively high volumes
25 of bicyclists. On-street parking is provided on Hermosa Avenue and Pier Avenue on all four legs
26 of the intersection. These features reflect the City's multimodal policies of serving and providing
27 for all modes of transportation at this key intersection rather than exclusively prioritizing
28 automobiles. Improvements to enhance traffic capacity at the intersection (e.g., additional turn
29 lanes or turn lane extensions) could only be achieved by removing on-street parking or the
30 landscaped median or by removing the scramble pedestrian phase and reverting to the normal
31 pedestrian crosswalks. As these actions would have potentially significant secondary impacts to
32 pedestrian mobility and public coastal access parking and would conflict with adopted City
33 policies for multimodal circulation in the Downtown, they are considered to be infeasible.

1 Therefore, one significant traffic impact would remain unavoidable as a result of implementation
 2 of the proposed Project. However, the existing LOS at this intersection would not change as a
 3 result of the proposed Project and would remain at LOS D.

4 Impact Description

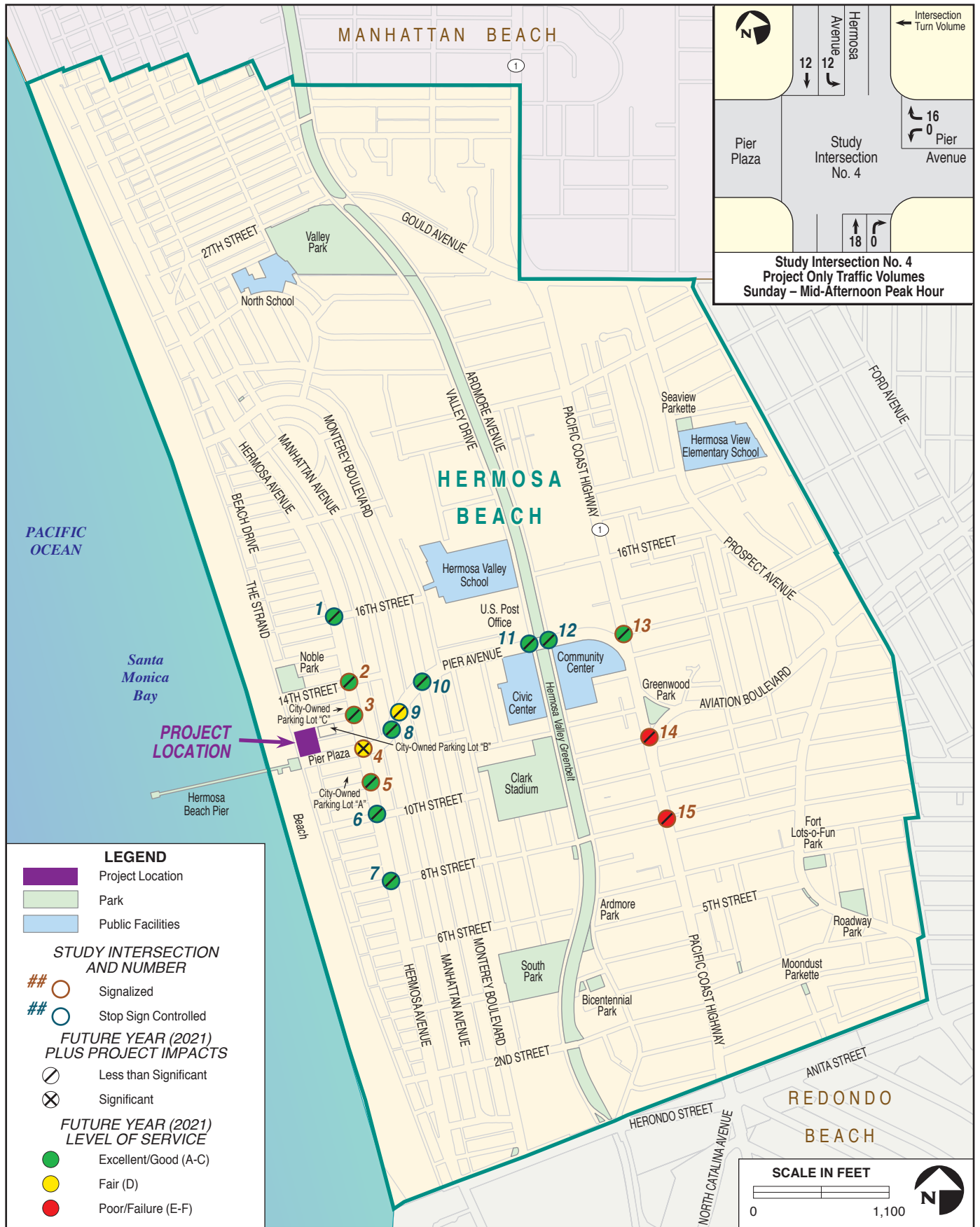
5 *Would cumulative traffic impacts related to the project conflict with an applicable plan, ordinance*
 6 *or policy establishing measures of effectiveness for the performance of the circulation system,*
 7 *taking into account all modes of transportation including mass transit and non-motorized travel*
 8 *and relevant components of the circulation system, including but not limited to intersections,*
 9 *streets, highways and freeways, pedestrian and bicycle paths, and mass transit?*

10 **TT-3 Under the Future (2021) Plus Project conditions, increased traffic generated by**
 11 **the proposed Project would result in a *significant and unavoidable* cumulative**
 12 **impact at 1 of 15 study intersections during the Sunday afternoon peak hour.**

13 In order to evaluate the cumulative impact of the proposed Project, Future (2021) Without Project
 14 traffic conditions were forecasted based on growth methodology discussed in Section 3.13.3,
 15 *Impact Assessment and Methodology*. Future cumulative projects, such as the 500,000-sf Redondo
 16 Beach Waterfront Project, were found to generate between approximately 1,220 and 2,355 hourly
 17 trips, depending on the time period (see Appendix I; Table 3.1 of the Traffic Study).¹⁴ The
 18 cumulative trip estimates were then added to the roadway network and combined with existing
 19 volumes and ambient traffic growth to provide the forecasts of traffic conditions in the study area
 20 under Future (2021) conditions, for the weekday AM, weekday PM, Friday PM, Saturday midday
 21 and Sunday afternoon peak hours, representing the Future Without Project conditions (see
 22 Appendix I; Figures 3.2 to 3.6 of the Traffic Study). The Future (2021) Without Project conditions
 23 analysis found that 13 of the 15 study intersections analyzed using the City's adopted ICU
 24 methodology for signalized intersections and HCM methodology at unsignalized intersections
 25 would be expected to operate at an acceptable LOS (refer to Figure 3.13-5).

26 The intersection LOS analysis for the Future (2021) Plus Project conditions is summarized in
 27 Table 3.13-14 for each of the time periods analyzed. This table also compares the LOS for Future
 28 (2021) Without Project and Future (2021) Plus Project conditions, shows the increase in V/C ratio
 29 or delay at each intersection due to the Project, and identifies if the increase in traffic constitutes a
 30 significant impact.

¹⁴ Due to the large geographic distribution of cumulative projects, not all trips would travel through the study area and traverse the study intersections.



Future Year (2021) Plus Project Intersection Impacts

FIGURE 3.13-5

1 **Table 3.13-14. Intersections Significantly Impacted by Adverse Changes to Future (2021)**
 2 **Plus Project Peak Hour Levels of Service**

No.	Intersection	Type ¹	Peak Hour	Future (2021) Without Project			Future (2021) Plus Project			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
1	Hermosa Avenue & 16 th Street	3-Way Stop	AM	-	9.0	A	-	9.1	A	0.1	No
			PM	-	9.8	A	-	9.9	A	0.1	No
			FRI	-	9.7	A	-	9.8	A	0.1	No
			SAT	-	9.3	A	-	9.5	A	0.2	No
			SUN	-	11.0	B	-	11.2	B	0.2	No
2	Hermosa Avenue & 14 th Street	Signalized	AM	0.269	-	A	0.271	-	A	0.002	No
			PM	0.331	-	A	0.333	-	A	0.002	No
			FRI	0.333	-	A	0.335	-	A	0.002	No
			SAT	0.293	-	A	0.299	-	A	0.006	No
			SUN	0.459	-	A	0.464	-	A	0.005	No
3	Hermosa Avenue & 13 th Street	Signalized	AM	0.259	-	A	0.308	-	A	0.049	No
			PM	0.404	-	A	0.462	-	A	0.058	No
			FRI	0.396	-	A	0.454	-	A	0.058	No
			SAT	0.423	-	A	0.486	-	A	0.063	No
			SUN	0.451	-	A	0.472	-	A	0.021	No
4	Hermosa Avenue & Pier Avenue	Signalized	AM	0.643	-	B	0.678	-	B	0.035	No
			PM	0.708	-	C	0.731	-	C	0.023	No
			FRI	0.693	-	B	0.715	-	C	0.022	No
			SAT	0.716	-	C	0.746	-	C	0.030	No
			SUN	0.867	-	D	0.888	-	D	0.021	Yes
5	Hermosa Avenue & 11 th Street	Signalized	AM	0.297	-	A	0.307	-	A	0.010	No
			PM	0.496	-	A	0.506	-	A	0.010	No
			FRI	0.391	-	A	0.399	-	A	0.008	No
			SAT	0.489	-	A	0.501	-	A	0.012	No
			SUN	0.420	-	A	0.424	-	A	0.004	No
6	Hermosa Avenue & 10 th Street	4-Way Stop	AM	-	10.1	B	-	10.4	B	0.3	No
			PM	-	10.5	B	-	10.6	B	0.1	No
			FRI	-	10.8	B	-	11.1	B	0.3	No
			SAT	-	10.0	A	-	10.2	B	0.2	No
			SUN	-	15.4	C	-	15.9	C	0.5	No

1 **Table 3.13-14. Intersections Significantly Impacted by Adverse Changes to Future (2021)**
 2 **Plus Project Peak Hour Levels of Service (Continued)**

No.	Intersection	Type ¹	Peak Hour	Future (2021) Without Project			Future (2021) Plus Project			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
7	Hermosa Avenue & 8 th Street	3-Way Stop	AM	-	10.4	B	-	10.7	B	0.3	No
			PM	-	10.7	B	-	10.9	B	0.2	No
			FRI	-	10.6	B	-	10.8	B	0.2	No
			SAT	-	10.4	B	-	10.6	B	0.2	No
			SUN	-	14.5	B	-	14.9	B	0.4	No
8	Manhattan Avenue West & Pier Avenue	1-Way Stop	AM	-	9.6	A	-	9.7	A	0.1	No
			PM	-	10.0	B	-	10.2	B	0.2	No
			FRI	-	10.4	B	-	10.7	B	0.3	No
			SAT	-	11.2	B	-	11.4	B	0.2	No
			SUN	-	13.2	B	-	13.4	B	0.2	No
9	Manhattan Avenue East & Pier Avenue	1-Way Stop	AM	-	11.8	B	-	12.2	B	0.4	No
			PM	-	13.6	B	-	13.8	B	0.2	No
			FRI	-	13.3	B	-	13.6	B	0.3	No
			SAT	-	14.7	B	-	15.2	C	0.5	No
			SUN	-	27.7	D	-	29.1	D	1.4	No
10	Monterey Boulevard & Pier Avenue	4-Way Stop	AM	-	9.6	A	-	9.8	A	0.2	No
			PM	-	10.7	B	-	10.9	B	0.2	No
			FRI	-	11.7	B	-	11.9	B	0.2	No
			SAT	-	11.4	B	-	11.7	B	0.3	No
			SUN	-	17.8	C	-	18.4	C	0.6	No
11	Valley Drive & Pier Avenue	4-Way Stop	AM	-	14.6	B	-	15.0	C	0.4	No
			PM	-	22.0	C	-	22.8	C	0.8	No
			FRI	-	22.3	C	-	23.1	C	0.8	No
			SAT	-	19.1	C	-	20.1	C	1.0	No
			SUN	-	14.8	B	-	15.2	C	0.4	No
12	Ardmore Avenue West & Pier Avenue	4-Way Stop	AM	-	15.5	C	-	15.8	C	0.3	No
			PM	-	21.2	C	-	22.2	C	1.0	No
			FRI	-	19.2	C	-	19.9	C	0.7	No
			SAT	-	15.7	C	-	16.2	C	0.5	No
			SUN	-	13.2	B	-	13.4	B	0.2	No

1 **Table 3.13-14. Intersections Significantly Impacted by Adverse Changes to Future (2021)**
 2 **Plus Project Peak Hour Levels of Service (Continued)**

No.	Intersection	Type ¹	Peak Hour	Future (2021) Without Project			Future (2021) Plus Project			V/C or Delay Increase	Significant Impact
				V/C	Delay	LOS	V/C	Delay	LOS		
13	PCH & Pier Avenue	Signalized	AM	0.717	-	C	0.718	-	C	0.001	No
			PM	0.782	-	C	0.787	-	C	0.005	No
			FRI	0.781	-	C	0.786	-	C	0.005	No
			SAT	0.655	-	B	0.663	-	B	0.008	No
			SUN	0.667	-	B	0.672	-	B	0.005	No
14	PCH & Aviation Boulevard	Signalized	AM	1.031	-	F	1.043	-	F	0.012	No
			PM	0.888	-	D	0.896	-	D	0.008	No
			FRI	0.891	-	D	0.899	-	D	0.008	No
			SAT	0.904	-	E	0.909	-	E	0.005	No
			SUN	0.851	-	D	0.854	-	D	0.003	No
15	PCH & 8 th Street	Signalized	AM	0.915	-	E	0.916	-	E	0.001	No
			PM	0.839	-	D	0.840	-	D	0.001	No
			FRI	0.875	-	D	0.876	-	D	0.001	No
			SAT	0.695	-	B	0.695	-	B	0.000	No
			SUN	0.667	-	B	0.667	-	B	0.000	No

3 Definitions:

4 V/C – Volume-to-Capacity Ratio; based on the amount of traffic traveling through the intersection, the lane geometries, and
 5 other factors affecting capacity such as one-street parking, bus operations near the intersections, and pedestrian
 6 volumes at the street crosswalks.

7 Delay – Average stopped delay per vehicle, in seconds.

8 LOS – Level of Service; refer to definitions in Tables 3.13-3 and 3.13-4.

9 Notes: ¹ For signalized intersections, V/C ratio and LOS are shown for the intersection as a whole. For unsignalized intersections,
 10 delay values and LOS are shown for worst-case minor (stopped) approach only.

11 ² For the three intersections along PCH, the ICU results are shown for informational purposes for the City of Hermosa Beach, but
 12 the analysis conclusions are based on the HCM results for Caltrans methodology.

13 Source: The Mobility Group 2017.

14 *AM Peak Hour*

15 During the AM peak hour all study intersections would continue to operate at LOS D or better in
 16 the Future Year (2021) with the implementation of the proposed Project, except for the signalized
 17 intersection at PCH & Aviation Boulevard, which would operate at LOS F with or without the
 18 proposed Project, and the signalized intersection at PCH & 8th Street, which would operate at LOS
 19 E with or without the proposed Project. The change in ICU value would not exceed the thresholds
 20 for significant impact at any location. Therefore, the Project would not cause any significant
 21 impacts in the AM peak hour.

1 *PM Peak Hour*

2 During the PM peak hour all study intersections would continue to operate at LOS D or better with
3 the implementation of the proposed Project in the Future Year (2021). The change in ICU value
4 would not exceed the thresholds for significant impact at any location. Therefore, the proposed
5 Project would not cause any significant impacts in the PM peak hour.

6 *Friday PM Peak Hour*

7 During the Friday PM peak hour all study intersections would continue to operate at LOS D or
8 better with the implementation of the proposed Project in the Future Year (2021). The change in
9 ICU value would not exceed the thresholds for significant impact at any location. Therefore, the
10 proposed Project would not cause any significant impacts in the Friday PM peak hour.

11 *Saturday Midday Peak Hour*

12 During the Saturday midday peak hour all study intersections would continue to operate at LOS D
13 or better with the implementation of the proposed Project in the Future Year (2021), except the
14 signalized intersection of PCH & Aviation Boulevard, which would operate at LOS E with and
15 without the Project. The change in ICU value would not exceed the thresholds for significant
16 impact at any location. Therefore, the proposed Project would not cause any significant impacts in
17 the Saturday midday peak hour.

18 *Sunday Afternoon Peak Hour*

19 During the Sunday afternoon peak hour all study intersections would continue to operate at LOS D
20 or better with the implementation of the proposed Project. Many intersections would continue to
21 operate at LOS A or LOS B in the Future Year (2021). However, the increase in ICU value of
22 0.021 (i.e., the increased in V/C ratio) caused by the Project at the intersection of Hermosa Avenue
23 and Pier Avenue would exceed the threshold for significance of 0.020, although the intersection
24 would remain at a LOS D. Therefore, the proposed Project would cause one *significant* impact in
25 the Sunday afternoon peak hour. The change in ICU value would not exceed the thresholds for
26 significant impact at any other location.

27 Mitigation Measures

28 The proposed Project would result in one significant traffic impact during the Sunday afternoon
29 peak hour at the signalized intersection of Hermosa Avenue & Pier Avenue. While the intersection
30 would continue to operate at LOS D, the proposed Project would increase the V/C ratio at the

1 intersection from 0.867 to 0.888. This increase in V/C ratio of 0.021 would slightly exceed the
2 threshold for significance of 0.020 (refer to Table 3.13-6).

3 However, this intersection is currently designed and operated to balance traffic flow with
4 facilitating high volumes of pedestrians and bicyclists in the Downtown Core that access the
5 commercial establishments along Pier Avenue, Pier Plaza, and Hermosa Avenue as well as The
6 Strand and the beach. To accomplish these goals, intersection design and operation includes a
7 pedestrian scramble phase where pedestrians can cross the streets on diagonal crosswalks as well
8 as the usual crosswalks. Hermosa Avenue also includes a bicycle route with “sharrow” markings
9 on the roadway and accommodates relatively high volumes of bicyclists. On-street parking is
10 provided on Hermosa Avenue & Pier Avenue on all four legs of the intersection. All of these
11 features reflect the City's multimodal policies of serving and providing for all modes of
12 transportation at this key intersection rather than exclusively prioritizing automobiles.
13 Improvements to enhance traffic capacity at the intersection (e.g., additional turn lanes or turn lane
14 extensions) could only be achieved by removing on-street parking or the landscaped median or by
15 removing the scramble pedestrian phase and reverting to the normal pedestrian crosswalks. As
16 these actions would have potentially significant secondary impacts to pedestrian mobility and
17 public coastal access parking and would conflict with adopted City policies for multimodal
18 circulation in the Downtown, they are considered to be infeasible. In addition, as discussed above
19 in Section 3.13.3, *Impact Assessment and Methodology*, Project trip generation and analysis of
20 potential traffic impacts already accounts for a substantial reduction in potential trips associated
21 with the mixed-use character of the proposed Project (i.e., “internal trip capture”), as well as
22 various proposed trip reduction measures (e.g., on-site bicycle rentals). Therefore, mitigation
23 measures aimed at further reducing project trip generation beyond a substantial reduction in project
24 size were also not considered feasible.

25 Therefore, one significant traffic impact would remain unavoidable as a result of implementation
26 of the proposed Project. However, the existing LOS at this intersection would not change as a
27 result of the proposed Project and would remain at LOS D.

28 Impact Description

29 *Would the project conflict with an applicable congestion management program, including, but not*
30 *limited to LOS standards and travel demand measures, or other standards established by the*
31 *county congestion management agency for designated roads or highways?*

32 **TT-4 The proposed Project would be consistent with the Los Angeles County CMP**
33 **and would have a *less than significant* impact on CMP roadways.**

1 The City has established criteria for CMP intersections as defined in the 2010 CMP for Los
2 Angeles County. The study area for CMP arterial monitoring intersections includes:

- 3 • All CMP arterial monitoring intersections where the proposed Project would add 50 or
4 more trips during either the weekday AM or weekday PM peak hours of adjacent street
5 traffic.
- 6 • All CMP mainline freeway monitoring locations where the proposed Project would add
7 150 or more trips, in either direction, during either weekday AM or weekday PM peak
8 hours.

9 In addition, although neither the CMP nor the City has established thresholds for transit service,
10 CMP requirements and guidelines require an analysis of potential Project impacts on the transit
11 system. For the purposes of this analysis, the following criterion was established to determine if
12 there would be any significant transit impacts due to the Project:

- 13 • The capacity of the transit system serving the Project area would be substantially exceeded.

14 *CMP Arterial Intersections*

15 The CMP arterial monitoring intersections nearest to the Project site include:

- 16 • PCH & Artesia Boulevard (approximately 1.2 miles from Project site)
- 17 • PCH & Torrance Boulevard (approximately 2.2 miles from Project site)
- 18 • Inglewood Avenue & Artesia Boulevard (approximately 2.9 miles from Project site)
- 19 • Sepulveda Boulevard & Rosecrans Avenue (approximately 3.2 miles from Project site)
- 20 • Hawthorne Boulevard & 190th Street (approximately 3.2 miles from Project site)
- 21 • Sepulveda Boulevard & El Segundo Boulevard (approximately 4.2 miles from Project site)

22 However, based on the Traffic Study's Project trip generation and distribution estimates, the
23 proposed Project would not be expected to add more than 50 vehicles per hour to any of these
24 locations during either weekday AM or weekday PM peak hours (see Appendix I; Table 4.16 of
25 the Traffic Study). Therefore, these intersections would not be significantly impacted under the
26 CMP criteria and a CMP arterial intersection analysis is not required by the City.

27 *CMP Freeways*

28 The mainline freeway monitoring locations nearest to the Project site include:

- 29 • I-405 North of La Tijera Boulevard (approximately 10.4 miles from Project site)
- 30 • I-405 South of Route 110 at Carson Scales (approximately 10.3 miles from Project site)

1 Based on the Traffic Study's Project trip generation and distribution estimates, the proposed
 2 Project would not add enough new traffic to exceed the freeway analysis criteria at these locations.
 3 Because Project-related traffic is projected to be well below the minimum criterion of 150 vehicles
 4 per hour (see Appendix I; Table 4.17 of the Traffic Study), I-405 would not be significantly
 5 impacted under the CMP criteria and a CMP freeway analysis is not required by the City.

6 *CMP Transit*

7 Based on the Traffic Study's Project trip generation and distribution estimates and procedures
 8 outlined in the CMP, additional transit trips associated with the proposed Project would comprise
 9 approximately 1 percent or less of capacity in the AM and PM peak hours (see Appendix I; Table
 10 4.18 of the Traffic Study). Therefore, the proposed Project would not cause the capacity of the
 11 transit system to be substantially exceeded and the Project would not create any significant impacts
 12 on the transit systems serving the Project Area. No mitigation would be required.

13 Impact Description

14 *Would the project conflict with adopted policies, plans, or programs regarding public transit,*
 15 *bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?*

16 **TT-5 The proposed Project would increase the use of pedestrian and bicycle**
 17 **facilities in the vicinity of the Project site, including The Strand and Pier Plaza;**
 18 **however, potential impacts would be *less than significant*.**

19 The proposed mixed-use hotel would encourage pedestrian and bicycle activity in the Downtown
 20 Core consistent with PLAN Hermosa policies. While no pedestrian trip generation estimates are
 21 available for the proposed mixed-use hotel, with the implementation of the proposed Project, it
 22 can reasonably be assumed that The Strand and Pier Plaza in the vicinity of the proposed mixed-
 23 used hotel would experience increased pedestrian activity. Pedestrian counts taken in August 2015
 24 show that pedestrian volumes on The Strand adjacent to the Project site range from approximately
 25 325 pedestrians in the AM and PM peak hours to 1,515 pedestrians in the Sunday afternoon peak
 26 hour (refer to Table 3.13-2). The counts also show pedestrian volumes in Pier Plaza adjacent to
 27 the Project site range from 250 pedestrians in the AM peak hour to 2,815 pedestrians in the Sunday
 28 afternoon peak hour. Assuming a maximum occupancy of 250 guests it is likely that The Strand
 29 would experience a long-term increase in pedestrian and bicycle activity. In addition, restaurant
 30 patrons, retail shoppers, and potential event guests, would also increase pedestrian activity along
 31 both The Strand and Pier Plaza. However, as noted in Section 3.13.3, *Impact Assessment and*
 32 *Methodology*, many of the patrons of these the restaurant and retail spaces would already be

1 visiting the Downtown Core under existing conditions, and therefore would not constitute a
2 Project-generated increase in pedestrian or bicycle activity. The Strand offers a maximum paved
3 width of 25 feet within the vicinity of the Project site, sufficient to accommodate the increase of
4 250 or more pedestrians and new bicyclists associated with the proposed Project. Similarly, Pier
5 Plaza is approximately 100 feet wide. These pedestrian facilities generally only experience
6 significant congestion during events, which would continue to occur in the Downtown with or
7 without the proposed Project. During a typical weekday or weekend during the busy summer
8 period, additional pedestrian traffic as a result of the proposed mixed-use hotel would not
9 substantially increase delay or otherwise affect the performance of these facilities and impacts
10 would be *less than significant*.

11 Formal developed bicycle facilities in the Project vicinity are limited to The Strand, which is a
12 multi-use off-road pedestrian and bicycle trail, and a Class III Bicycle Route (with “sharrow”
13 markings on the roadway surface) along Hermosa Avenue and further east along Monterey
14 Boulevard (refer to Figure 3.13-1). However, many of the streets within the City, particularly those
15 west of Hermosa Avenue, are used by bicyclists in lieu of bicycle routes. This is particularly
16 common along the east-west oriented streets that provide beach access (e.g., 13th Street). As with
17 pedestrian facilities, these existing bicycle facilities, particularly The Strand would be expected to
18 see some increase in use. The Strand already accommodates up to 295 bicycle trips during the
19 weekend peak hours and would be expected to accommodate additional trips associated with the
20 hotel without a substantial increase in congestion. Bicyclists would continue to experience
21 significant congestion during special events; however, these events would continue to occur in the
22 Downtown with or without the proposed Project. Overall, impacts related to performance of
23 bicycle facilities would be *less than significant*.

24 Pending cumulative projects in the City are located more than 0.5 miles inland and would not be
25 expected to generate substantial pedestrian or bicycle trips along The Strand or Pier Plaza. The
26 Redondo Beach Waterfront development would add approximately 500,000 sf of retail,
27 restaurants, office space, hotels, and recreational areas in Redondo Beach. This development
28 would be located approximately 1 mile south of the proposed Project and would likely result in
29 some pedestrian and bicycle traffic along The Strand at the Project site. However, during a typical
30 weekday or weekend during the busy summer period, additional pedestrian traffic as a result of
31 this pending cumulative project would not substantially increase delay or otherwise affect the
32 performance of these facilities and impacts. The implementation of the proposed Project would
33 not substantially contribute to any cumulatively significant impacts related to pedestrian or bicycle
34 facilities.

1 Potential impacts associated with the removal of lateral access along Beach Drive are discussed
2 further in Section 3.3, *Recreation* under Impact REC-2.

3 Impact Description

4 *Would the project substantially increase hazards due to a design feature (e.g., sharp curves or*
5 *dangerous intersections) or incompatible uses; or conflict with adopted policies, plans, or*
6 *programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the*
7 *performance or safety of such facilities?*

8 **TT-6 The operation of the proposed Project following construction would not create**
9 **or increase traffic hazards in the Project area. Impacts would be *less than***
10 ***significant.***

11 On-site vehicular circulation would include a covered hotel entrance and adjacent ground floor
12 guest lobby entrance off 13th Street (refer to Figure 2-2). Project drop-off and loading zones and
13 the entrance to the subterranean parking garage would be off the 13th Street hotel entrance. All
14 parking on-site would be valet only and accessed at the on-site covered vehicle entrance adjacent
15 to 13th Street; no self-parking would be permitted. A delivery, loading, and trash/recycling area
16 would be located on the ground floor of the hotel accessible from 13th Court and Lot B adjacent to
17 the east of the Project site. Service vehicles would be able to turn around using 13th Court and
18 Lot B. 13th Court is a two-way alley with right-in/right-out access at Hermosa Avenue.

19 Currently, 13th Street is a two-way street from the intersection with Hermosa Avenue for
20 approximately 110 feet to the entrance/exit for Lot C. From that point west to Beach Drive it is a
21 one-way, one-lane eastbound street, with a 6- to 8-foot-wide sidewalk on the south side and no
22 sidewalk on the north side. The proposed Project would convert 13th Street from one-way
23 eastbound to two-way operation to facilitate direct access/egress to the proposed mixed-use hotel
24 (refer to Figure 2-8). 13th Street would be restriped to allow for two-way vehicle traffic. The
25 sidewalk width along 13th Street would be reduced from 10 feet to 8 feet, which would allow for
26 creation of two, 11-foot wide travel lanes, with traffic flow controlled by a stop sign at the
27 intersection of 13th Street and Beach Drive. An additional stop sign would be installed on the
28 eastbound lane along 13th Street just before Lot C to allow for provision of left-turn eastbound
29 access into the parking structure, as well as through vehicle movements to Hermosa Avenue.
30 13th Street would also continue to provide access to Lot B on 13th Street immediately east of the
31 Project site, as it currently does. Traffic signs would be installed at the intersection of Hermosa
32 Avenue & 13th Street to indicate the availability of left-turns from Hermosa Avenue onto
33 13th Street. City staff has reviewed and determined restriping to be feasible. The Hbfd has

1 indicated that this proposed signage and restriping improvements to allow two-way access would
2 result in better access to the Project site and surrounding vicinity.

3 Vehicle traffic would be expected to increase as a result of the implementation of the proposed
4 Project. However, the on-site valet drop-off/loading and subterranean parking garage entrance
5 zone would increase driver visibility and safety of oncoming pedestrians, bicyclists, and vehicular
6 traffic. Vicinity traffic flow would improve as a result of the restriping of 13th Street from a one-
7 way street to allow for two-way vehicle traffic. The restriping would improve circulation to the
8 hotel's valet drop-off/loading zone, as well as circulation along Beach Drive adjacent to the Project
9 site. The existing traffic signal at 13th Street & Hermosa Avenue would provide for all movements
10 into and out of 13th Street, thus making 13th Street an efficient direct access route to the proposed
11 Project, and avoiding the need for Project traffic to use other streets. Consequently,
12 implementation of the proposed Project would not result in significant impacts associated with
13 increased hazards and no mitigation would be required.

14 Impact Description

15 *Would the project result in inadequate emergency access?*

16 **TT-7 The proposed Project would result in *less than significant* impacts to**
17 **emergency access.**

18 Emergency access to the Project site is currently provided for emergency vehicles on 13th Street,
19 13th Court, and Beach Drive. Although typically restricted to pedestrian traffic, emergency access
20 may also be provided along Pier Plaza in the event of a major emergency.

21 During construction activities associated with the proposed Project, 13th Street would be closed
22 between Beach Drive and the Lot C driveway (refer to Figure 3.13-3). Additionally, Beach Drive
23 would be closed between 13th Street and Pier Avenue, which would be developed as part of the
24 Project (refer to Section 3.3, *Recreation* for discussion on proposed vacation of Beach Drive).
25 13th Court would remain open for deliveries except for 100 feet between Beach Drive, and Lot B,
26 which would be developed as part of the Project. Emergency vehicle access would be maintained
27 via Pier Avenue and 14th Street. In addition, emergency knock boxes would be kept at the
28 construction gate at 13th Street, in case emergency access into the Project site is required during
29 after-hours.

30 Once construction is complete, 13th Street, Lot B, and 13th Court would be re-opened. In the event
31 of an emergency, the Project site could be accessed from three entry points: the main hotel entry
32 off 13th Street; the ground floor loading dock from Lot B/13th Court; and along Pier Plaza at the

1 southeast and southwest corners of the proposed mixed-use hotel. Further, the initial emergency
2 evacuation staging and refuge area for hotel occupants would be the beach area directly west of
3 The Strand in front of the Project site. In addition, prior to operation, the hotel operator would
4 provide an Emergency Response Plan for stipulated refuge areas for emergency evacuations and/or
5 other natural or man-made disasters (refer to MM PS-1b in Section 3.12, *Public Services*).
6 Additionally, the hotel operator would utilize training procedures and an operational handbook
7 that provides processes and procedures for staff to provide the first responder services before
8 calling the HBFD and HBPD. The site plans and Emergency Response Plan for the proposed
9 Project would be reviewed prior to issuance of a building permit to ensure that all HBFD and
10 HBPD safety requirements (including those related to fire and emergency access) would be met.

11 Neither Project construction nor operation would modify, close, or block emergency access to the
12 Project site or adjacent properties. There would therefore be no significant impacts on property
13 access during construction and no mitigation would be required.

1 3.14 UTILITIES AND SERVICE SYSTEMS

2 The following analysis describes existing and planned utilities in the vicinity of the Strand and
3 Pier Mixed-Use Hotel Project (Project) site within the City of Hermosa Beach (City), and evaluates
4 the operation and capacity of these utilities with the development of the proposed Project. Utilities
5 necessary for the operation of the proposed hotel would include wastewater, potable water, solid
6 waste disposal, and energy (i.e., electricity, natural gas) services. Wastewater collection and
7 treatment in the area is provided by the South Bay Cities District. Potable water service is provided
8 by the West Basin Municipal Water District (WBMWD) and the California Water Service
9 Company (Cal Water). Solid waste collection, recycling, and transportation services are provided
10 by Athens Services. For energy services, Southern California Gas Company (SoCalGas) provides
11 natural gas, and Southern California Edison (SCE) provides electricity. Additionally, cable, phone,
12 and internet services are provided to the City by private companies including Time Warner Cable,
13 Verizon, Direct TV, and Dish Network.

14 The utilities analysis for this section is based on information from the local agencies and service
15 providers, Los Angeles Regional Water Quality Control Board (RWQCB) reports, and Applicant-
16 prepared engineering and technical studies, which have been peer reviewed by City Public Works
17 Department staff. For specific information regarding stormwater drainage and groundwater please
18 refer to Section 3.7, *Hydrology and Water Quality*.

19 3.14.1 Environmental Setting - Wastewater Services

20 The Project site is located in the City and within the western limits of the County of Los Angeles
21 (County). Wastewater collection services are provided by the City and wastewater facilities are
22 maintained and operated by the City Public Works Department. The sanitary sewer system serving
23 the City consists of network of approximately 37 miles of gravity flow sewer lines and two pump
24 stations (City of Hermosa Beach 2014). Much of the system is believed to have been installed in
25 the late 1920s. The majority of the original system is concrete with recent replacements of clay
26 pipe (City of Hermosa Beach 2014). The City is included as part of the South Bay Cities District
27 of the Los Angeles County Sanitation Districts (LACSD). The South Bay Cities District provides
28 wastewater collection and treatment to eight cities, including: El Segundo, Hermosa Beach,
29 Manhattan Beach, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills
30 Estates, and Torrance. The South Bay Cities District provides services to an area of 14.6 square
31 miles and a total population of approximately 117,671 (Sanitation Districts of Los Angeles County
32 2015a).

1 Wastewater collected by the City sanitary sewer system is conveyed into the LACSD wastewater
2 collection system, which flow north-northwesterly toward Manhattan Beach, where it is then
3 conveyed to a Joint Water Pollution Control Plant (JWPCP) wastewater treatment plant located in
4 the City of Carson, approximately 8 miles southeast of Hermosa Beach. The JWPCP facility
5 provides primary and secondary treatment for approximately 280 million gallons per day (MGD),
6 with a capacity of 400 MGD, making it one of the largest wastewater treatment plants in the world
7 (Sanitation Districts of Los Angeles County 2015b).

8 The City manages existing sewer infrastructure in accordance with the *Sanitary Sewer Master*
9 *Plan*, last updated in March 2011 and currently undergoing further revision. This plan identifies
10 specific deficiencies in the existing sewer system – primarily associated with aging infrastructure
11 – and lays out a plan and budget for repairing or upgrading deficient areas over a period of 10
12 years, to ensure reliable conveyance of wastewater throughout the City (City of Hermosa Beach
13 2011). The plan shows few deficiencies in the vicinity of the Project site at this time; however,
14 14th Court and 13th Street are high priority projects that are recommended for infrastructure
15 improvements due to aging infrastructure (e.g., missing pipe, cracks or holes in pipe, etc.) (City of
16 Hermosa Beach 2011). The plan shows no deficiencies within the boundaries of the Project site
17 itself.

18 Wastewater generation and sewer flows were estimated for the existing development at the Project
19 site by Fuscoe Engineering, Inc. in the Water and Wastewater Infrastructure Assessment Report
20 prepared in July 2016 for the Strand & Pier Hotel Project (see Appendix J). Currently, the Project
21 site utilizes two 8-inch sanitary sewer lines located along Beach Drive and 13th Court. Wastewater
22 and sewage collected by these sewer lines are conveyed to an 8-inch sewer main located along
23 Hermosa Avenue. The two 8-inch sewer lines collect and convey sewage generated by a total of
24 nine subareas within the Project vicinity. In total, wastewater collected and conveyed by the 8-
25 inch sewer lines located along Beach Drive and 13th Court is approximately 55,952 gallons per
26 day (gpd), with a peak daily flow of 139,881 gpd (see Appendix J). Based on County of Los
27 Angeles Sewer Generation Factors, the existing contributing average sewer flow daily demand for
28 the Project site is estimated to be 16,882 gpd, with a peak flow of approximately 42,204 gpd (see
29 Table 3.14-1). The current design capacity of the 8-inch lines located along Beach Drive and
30 13th Court are approximately 212,626 gpd and 216,626 gpd, respectively.

1 **Table 3.14-1. Estimated Existing Project Site Wastewater Generation**

Parcels	Existing Use	Sewage Generation (gpd/unit) ²	Quantity	Average Daily Flow (gpd)	Peak Daily Flow (gpd)
4183-002-001 (Block 1, 2, and 3)	Mermaid Restaurant	25 gpd/1,000 sf	7,222 sf	181	451
4183-002-002 (Block 4) 4183-002-003	Mermaid Restaurant, The Deck, and Good Stuff	50 gpd/seat	160 seats	8,000	20,000
4183-002-017 (Block 19, 20, and 31)	Playa Hermosa Fish & Oyster Co., Pier Surf Shop, Hooked, Jacob Shaw, Inc.	50 gpd/seat	134 seats	6,700	16,750
4183-002-004	Hermosa Cyclery	100 gpd/1,000 sf	6,010 sf	601	1,503
4183-002-018	Residential Apartments	150 gpd/DU	4 DU	600	1,500
4183-002-019	Residential Apartments	150 gpd/DU	4 DU	800	2,000
Total Existing Daily Flow				16,882	42,204

2 Notes:

3 ¹Project Areas as defined in Appendix J.4 ²Sewer Generation rates based on sewer flow estimates from the County of Los Angeles Sewer Generation Factors

5 DU = Dwelling Units

6 **3.14.2 Regulatory Framework - Wastewater Services**7 Federal Regulations8 *Clean Water Act*

9 The Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), is the
10 primary statute governing water quality. The CWA establishes the basic structure for regulating
11 discharges of pollutants into the waters of the United States and gives the U.S. Environmental
12 Protection Agency (USEPA) the authority to implement pollution control programs, such as setting
13 wastewater standards for industry. The statute's goal is to regulate all discharges into the nation's
14 waters and to restore, maintain, and preserve the integrity of those waters. The CWA sets water
15 quality standards for all contaminants in surface waters and makes it unlawful for any person to
16 discharge any pollutant from a point source into navigable waters unless a permit is obtained under
17 its provisions. The CWA mandates permits for wastewater and stormwater discharges, requires
18 states to establish site-specific water quality standards for navigable bodies of water, and regulates
19 other activities that affect water quality, such as dredging and the filling of wetlands. The CWA
20 also funds the construction of sewage treatment plants and recognizes the need for planning to
21 address nonpoint sources of pollution.

1 State Regulations

2 *California Regional Water Quality Control Board Los Angeles Region Order No. 20-031*

3 Outlines general water discharge requirements for small commercial and multi-family residential
4 subsurface sewage disposal systems.

5 *Health and Safety Code Section 17921.3*

6 Requires low-flush toilets and urinals in all buildings, including commercial, residential,
7 institutional, and industrial buildings.

8 Regional Regulations

9 *Enhanced Watershed Management Plan for Beach Cities*

10 Following adoption of the Municipal Separate Storm Sewer System (MS4) permit, the Cities of
11 Hermosa Beach, Manhattan Beach, Redondo Beach, and Torrance (Beach Cities), together with
12 the Los Angeles County Flood Control District, agreed to collaborate in the development of the
13 Enhanced Watershed Management Plan (EMWP) for the Santa Monica Bay and Dominguez
14 Channel Watershed. The EMWP is intended to facilitate effective, watershed-specific permit
15 implementation strategies in accordance with permit Part VI.C., *Watershed Management*
16 *Program*. The EMWP: summarizes watershed-specific water quality priorities identified by the
17 Beach Cities Watershed Management Group; outlines the program plan, including specific
18 strategies, control measures and best management practices (BMPs), necessary to achieve water
19 quality targets; and describes the quantitative analyses completed to support target achievement
20 and Permit compliance.

21 Local Regulations

22 *City of Hermosa Beach General Plan (PLAN Hermosa)*

23 The City adopted the General Plan and Local Coastal Program (LCP) (collectively referred to as
24 PLAN Hermosa) on August 22, 2017. This updated document contains goals and policies in the
25 Infrastructure Element related to utilities that apply to the proposed Project. These policies include,
26 but are not limited to:

27 **Goal 4.** The sewer system infrastructure is modernized and resilient.

28 **Policy 4.4 System capacity reviews.** Require new development and redevelopment
29 projects to demonstrate available sewer system capacity and resiliency.

1 *Hermosa Beach Municipal Code*

2 Chapter 8.36, *Sewage and Industrial Waste*, of the City's Municipal Code regulates the discharge
3 of industrial waste, treated sewage, and sewage throughout the City. It addresses the need to
4 preserve the health, safety, and general welfare of the public and the environment.

5 *Low Impact Development Ordinance*

6 Since adoption of a customized amendment to the California Green Building Code in 2010, the
7 City has required low impact development (LID) BMPs for both residential and commercial
8 projects. All new development within the City that adds or replaces 5,000 square feet (sf) of
9 impervious surface area is required to comply with the established LID requirements.

10 *Hermosa Beach Sanitary Sewer Master Plan*

11 The City has adopted the Sanitary Sewer Master Plan, which provides an overview of existing
12 conditions and recommends a program for facilitating and funding capital improvement projects
13 for the City's sanitary sewer infrastructure.

14 **3.14.3 Impact Assessment and Methodology - Wastewater Services**

15 Thresholds for Determining Significance

16 The following thresholds of significance are based on Appendix G of the 2017 California
17 Environmental Quality Act (CEQA) Guidelines. For purposes of this Environmental Impact
18 Report (EIR), implementation of the proposed Project may have a significant adverse impact on
19 wastewater infrastructure if:

- 20 a) The project would exceed wastewater treatment requirements of the Los Angeles Regional
21 Water Quality Control Board;
- 22 b) The project would require or result in the construction of new wastewater treatment
23 facilities or expansion of existing facilities, the construction of which could cause
24 significant environmental effects; or
- 25 c) The project would result in a determination by the wastewater treatment provider, which
26 serves or may serve the project that it has inadequate capacity to serve the project's
27 projected demand in addition to the provider's existing commitments.

28 Methodology

29 The proposed Project was evaluated for impacts to wastewater utilities based on data published by
30 the LACSD and Los Angeles RWQCB, information provided by the City's Existing Conditions

1 Report (City of Hermosa Beach 2014), and a Water and Sewer Technical Report for the proposed
2 Project (Fusco Engineering, Inc. 2016) and peer reviewed by City Public Works Department staff.

3 The Initial Study (see Appendix A) prepared for the proposed Project determined that the mixed-
4 use hotel could result in potentially significant impacts to all thresholds associated with wastewater
5 utilities. Potential impacts of the proposed Project were evaluated by reviewing the characteristics
6 of the proposed mixed-use hotel to assess their potential to affect the capacities of wastewater
7 utilities. Projected utility demands for the proposed Project were compared with the current
8 capacity available for allocation within the City. Potential impacts resulting from the proposed
9 Project were compared with criteria from Los Angeles RWQCB, CEQA Appendix G, and the
10 PLAN Hermosa Environmental Impact Report (EIR) to assess their significance. Physical impacts
11 associated with utilities trenching are discussed in Section 3.5, *Geology and Soils*, as well as
12 Section 3.13, *Transportation and Traffic*.

13 **3.14.4 Project Impacts and Mitigation Measures - Wastewater Services**

14 Impact Description

15 *Would the project exceed wastewater treatment requirements of the Los Angeles Regional Water*
16 *Quality Control Board; result in the construction of new wastewater treatment facilities or*
17 *expansion of existing facilities; or result in a determination by the wastewater treatment provider*
18 *that it has inadequate capacity to serve the Project's projected demand in addition to the*
19 *provider's existing commitments?*

20 **UT-1 Wastewater generation resulting from the proposed Project would not exceed**
21 **Los Angeles RWQCB wastewater treatment requirements and would not**
22 **result in the need for new or expanded wastewater treatment facilities.**
23 **However, the proposed Project could exceed the capacity of existing sewer**
24 **lines serving the areas resulting in impacts that would be *less than significant***
25 ***with mitigation.***

26 Wastewater generation from construction-related activities is not anticipated to cause a measurable
27 increase in wastewater flows; wastewater generation would not noticeably increase until the
28 completion of the proposed Project. Construction activities for the proposed Project would result
29 in minimal generation of wastewater as a result of construction workers and equipment on-site.
30 Construction impacts associated with wastewater infrastructure would primarily be confined to
31 trenching for the installation of new sewer mains and for the connections to public infrastructure
32 (Fusco Engineering, Inc. 2016) (refer to Section 3.5, *Geology and Soils*, as well as Section 3.13,

1 *Transportation and Traffic*). Installation of wastewater infrastructure would include on-site
 2 wastewater distribution and off-site work associated with the vacation of Beach Drive (Fuscoe
 3 Engineering, Inc. 2016). The proposed Project would require removal of approximately 385 feet
 4 of sewer lines in Beach Drive and 13th Court, and would require installation of a new sewer main
 5 alignment to continue to serve properties adjacent to the Project site. No upgrades to public
 6 infrastructure are proposed by the Applicant; however, minor off-site work would be required in
 7 order to connect to the public sewer mains. Any impacts (e.g., service interruptions) resulting from
 8 installation of wastewater infrastructure required for the proposed Project would be of a relatively
 9 short-term duration and would be temporary.

10 Sewer flow analysis for the proposed Project was conducted for all City-owned sewer lines in the
 11 Project vicinity that are tributary to the County-owned sewer line along Hermosa Avenue. The
 12 proposed sewer flows were calculated using two methods. In the first method, sewer flows within
 13 the study area were calculated using Los Angeles County Sewer Generation Factors; peak sewer
 14 demand flow was determined to be 139,881 gpd for existing conditions and 246,333 gpd with the
 15 incorporation of the proposed Project (Fuscoe Engineering, Inc. 2016). Table 3.14-2 describes the
 16 estimated wastewater generation of the proposed Project.

17 **Table 3.14-2. Estimated Proposed Wastewater Generation**

Proposed Use	Sewage Generation (gpd /unit) ¹	Quantity	Average Daily Sewer Flow (gpd)	Peak Flow (gpd) ²
Hotel	150/room	100 rooms	15,000	37,500
Commercial Shops & Stores	100 gpd/1,000 SF	5,522 SF	552	1,381
Restaurants	50/seat	500 seats	25,000	62,500
Bars, Cocktail Lounges, etc.	20/seat	879 seats	17,580	43,950
Parking	25/1,000 SF	53,209 SF	1,330	3,326
Total Proposed Daily Wastewater Generation			59,462	148,656
Total Existing Wastewater Generation			16,882	42,204
Net Wastewater Generation			+42,580	+106,452

18 Notes:
 19 ¹Water consumption estimates based on County of Los Angeles Sewer Generation Factors
 20 ²Peak flow demand is based on a peak factor of 2.5
 21 Source: Fuscoe Engineering, Inc. 2016.

22 In the second method, existing sewer flows were calculated using the City zoning map and the Los
 23 Angeles County Sewer “Zoning Coefficients,” where the study area was multiplied by the
 24 designated zoning coefficient (Fuscoe Engineering, Inc. 2016). The peak flow produced in the
 25 study area was determined to be 131,518 gpd; because the first methodology resulted in a higher

1 flow demand for both the existing and proposed conditions, it was used to calculate the capacity
2 of the existing sewer main that serves the Project site (Fusco Engineering, Inc. 2016).

3 Average daily operational sewer flow for the proposed Project would be approximately 59,462 gpd
4 with the peak flow at approximately 148,656 gpd (Fusco Engineering, Inc. 2016). When
5 accounting for the proposed Project combined with all sub-areas discharging into the 8-inch sewer
6 lines in Beach Drive and 13th Court, the average daily sewer flow would be 98,553 gpd and the
7 peak daily flow would be 246,333 gpd (Fusco Engineering, Inc. 2016). As a result of the proposed
8 Project, peak flow would exceed the design capacity of the existing 8-inch lines by approximately
9 16 percent (Fusco Engineering, Inc. 2016). As a result, this sewer line could operate in surcharge
10 (i.e., overflow) conditions, which may require expansion or replacement to increase capacity. With
11 the Applicant's installation of upsized wastewater infrastructure during the construction of the
12 proposed Project, impacts on wastewater utilities associated with Project operations would be *less*
13 *than significant with mitigation*.

14 Regionally, the nine sub-area flows are routed towards the Herondo Pumping station that outfalls
15 into the County's trunk on Monterey Avenue, where the sewer effluent is then conveyed through
16 the County regional sanitary sewer system to the JWPCP outfall (Fusco Engineering, Inc. 2016).
17 Nevertheless, this increase in wastewater generation would be within the capacity of the
18 wastewater facilities that currently serve the Project site. The JWPCP has a capacity of 400 million
19 gallons; thus the proposed Project's increase in sewer demand would not affect the capacity of the
20 existing local or regional sanitary sewer systems (Fusco Engineering, Inc. 2016). As a result, the
21 proposed Project would not conflict with Los Angeles RWQCB policies and standards.

22 Mitigation Measures (MM)

23 ***MM UT-1 Wastewater Infrastructure Upgrades.*** *During relocation of the existing sewer*
24 *utilities, the Applicant shall install upsize wastewater infrastructure directly*
25 *adjacent to the Project site to replace existing undersized sewer lines. The*
26 *Applicant shall be required to increase the conveyance capacity of existing sewer*
27 *lines within and directly adjacent to the Project site by a minimum of 16 percent to*
28 *accommodate increased peak wastewater conveyance required by the proposed*
29 *mixed-use hotel.*

30 **Plan Requirements and Timing.** Prior to the issuance of any City permits related
31 to site preparation, demolition, grading, or construction the Applicant submit
32 revised construction plans identifying the location and size of the proposed sewer
33 lines, which will connect to the City's sewer system as part of Project construction.

1 **Monitoring.** Prior to the issuance of any City permits related to site preparation,
2 demolition, grading, or construction, the City Department of Public Works shall
3 verify that the final construction plans include appropriate upgrades to wastewater
4 facilities that would adequately convey proposed peak flows.

5 Residual Impacts

6 With implementation of MM UT-1, potential impacts related to wastewater infrastructure would
7 be less than significant. Implementation of the above-mentioned mitigation measure would ensure
8 that sewer lines are sized adequately sized to serve the proposed Project.

9 Cumulative Impacts

10 The cumulative development described in Tables 3.0-1, 3.0-2, and 3.0-3 would result in additional
11 wastewater generation within the City. Further, with development under PLAN Hermosa, future
12 development and reuse projects would increase the amount of wastewater generation and increase
13 demand on wastewater treatment facilities (City of Hermosa Beach 2017). With the
14 implementation of MM UT-1, the proposed Project's contribution to cumulative wastewater
15 generation demand would be incremental in comparison to existing and future planned wastewater
16 capacities of local wastewater treatment providers. Compliance of the proposed Project and future
17 development projects with regulatory requirements that regulate wastewater discharge, such as the
18 Hermosa Beach Municipal Code (HBMC), which includes the City's LID Code, as well as Los
19 Angeles RWQCB wastewater treatment requirements, would assist in ensuring that wastewater
20 generation is minimized and wastewater demand is adequately served on a cumulative basis. If
21 cumulative development projects exceed the capacity of the wastewater infrastructure, developers
22 would be required to reduce water consumption and wastewater flow on a project-specific basis,
23 including implementation of best management practices for water conservation and efficiency, as
24 identified in PLAN Hermosa. Therefore, the proposed Project's contribution to cumulative impacts
25 on wastewater utilities would be *less than significant*.

26 **3.14.5 Environmental Setting - Potable Water Services**

27 Water services for the City are provided through a combination of imported and reclaimed water
28 supplied by the West Basin Municipal Water District (WBMWD) and groundwater, imported
29 surface water, and recycled water supplied by Cal Water.

30 Cal Water Supplies

31 The Project site is located within the Hermosa-Redondo District of Cal Water's service area.
32 Formed in 1926, Cal Water has continued to provide reliable water service to the Hermosa-

1 Redondo District area since 1927 through a combination of local groundwater and surface water
 2 supplies purchased from WBMWD, a member agency of Metropolitan Water District of Southern
 3 California (MWD).

4 Water purchased from MWD is imported to the Cal Water service area from the Colorado River
 5 and the State Water Project, which supply much of Southern California’s municipalities with
 6 reliable water supplies. Purchased water supplies from WBMWD by Cal Water meet most the
 7 Hermosa-Redondo District service demands, accounting for approximately 80 to 85 percent.

8 In addition to purchased water, Cal Water relies on groundwater supplies extracted from the West
 9 Coast Basin’s Silverado aquifer meet approximately 15 to 20 percent of the Hermosa-Redondo
 10 District demand. The quantity of water provided through extraction to meet Hermosa-Redondo
 11 District demands averages approximately 2,000 acre-feet per year (AFY). Despite production and
 12 extraction of only 2,000 AFY, Cal Water has an adjudicated safe yield from the aquifer of
 13 4,070 AFY; however, Cal Water does not currently have the ability to sustain production
 14 and delivery of its full adjudicated amount (Cal Water 2016). For further discussion of
 15 groundwater basin characteristics and hydrology, refer to Section 3.7, *Hydrology and Water*
 16 *Quality*.

17 The remainder of Cal Water service demands are met through recycled water supplies, which
 18 makes up approximately 1 percent of total water served to the Hermosa-Redondo District.
 19 Recycled water is provided to the Hermosa-Redondo District by the West Basin Water Recycling
 20 Facility (WBWRF), which receives treated effluent from the Los Angeles Hyperion Wastewater
 21 Treatment Plant and subjects the water to chemical treatment to meet established drinking water
 22 quality criteria. Cal Water recycled water supplies received from the WBWRF are primarily used
 23 for groundwater replenishment, land scape irrigation, and industrial process water.

24 **Table 3.14-3. Cal Water Hermosa-Redondo District 2015 Total Water Supplies**

Water Supply	Use	Volume (AF)	Percent Supply
Groundwater	Drinking Water	1,734	15.9
Purchased or Imported Water	Drinking Water	9,031	82.8
Recycled Water	Recycled Water (aquifer replenishment, landscape irrigation, etc.)	142	1.3
Total	-	10,907	100.0

25 Notes: AF = acre-feet
 26 Source: Cal Water 2016.

1 Over the next 25 years, Cal Water projects a slight increase by approximately 2 percent in total
 2 allowable water supplies through 2040, increasing from 12,641 AFY to 12,747 AFY (Cal Water
 3 2016). Due to a flat 4,070 AFY adjudicated right to WBMWD’s Silverado aquifer supplies and a
 4 projected supply of 150 AFY of recycled water, total available groundwater and recycled water
 5 supplies are projected to remain the same of the next 25 years (see Table 3.14-4). The only variable
 6 in total projected water supplies are anticipated to occur to purchased supplies, which vary year-
 7 by-year based on service area demands and water use conservation.

8 **Table 3.14-4. Projected Hermosa-Redondo District Supplies**

Water Supply	Projected Water Supply (AF)				
	2020	2025	2030	2035	2040
Groundwater	4,070	4,070	4,070	4,070	4,070
Purchased or Imported Water	8,421	8,320	8,357	3,425	8,527
Recycled Water	150	150	150	150	150
Total	12,641	12,540	12,577	12,645	12,747

9 Notes: AF = acre-feet
 10 Source: Cal Water 2016.

11 WBMWD Supplies

12 The WBMWD services a total of 17 cities throughout the southwestern region of the County across
 13 a service area of 185 square miles. Water provided by WBMWD is supplied to these municipalities
 14 through the purchase of imported water from MWD, which wholesales the water to the cities (West
 15 Basin Municipal Water District 2014). In 2015, WBMWD water supplies accounted for a total of
 16 135,369 acre-feet (AF) from several sources, including desalinated brackish groundwater,
 17 purchased or imported water, and recycled water (West Basin Municipal Water District 2016).

18 Imported WBMWD supplies are purchased from MWD, and in 2015, accounted for approximately
 19 80 percent of WBMWD’s available supply. Like much of Southern California’s imported water
 20 supplies, imported water wholesaled to WBMWD by MWD originates from the Colorado River
 21 and State Water Project. Remaining 2015 WBMWD supplies consisted of approximately 690 AF
 22 of desalinated brackish groundwater and 29,110 AF of recycled water treated at several water
 23 recycling facilities and nitrification plants (see Table 3.14-5).

1 **Table 3.14-5. WBMWD 2015 Total Water Supplies**

Water Supply	Use	Volume (AF)	Percent Supply
Desalinated Water	Drinking Water	690	0.6
Purchased or Imported Water	Drinking Water	105,569	77.9
Recycled Water	Recycled Water (aquifer replenishment, landscape irrigation, etc.)	29,110	21.5
Total	-	135,369	100.0

2 Notes: AF = acre-feet
 3 Source: West Basin Municipal Water District 2016.

4 WBMWD supply projections are designed to reflect WBMWD demand, as WBMWD receives the
 5 amount of water necessary to meet wholesale demands. WBMWD supply and demand projections
 6 are based on an estimated 4.5 percent WBMWD service area population projections for the next
 7 25 years, as well as the Water Demand Forecasting Model prepared by WBMWD in 2010. Over
 8 the next 25 years, WBMWD service area demands are projected to increase by approximately
 9 8,757 AF, or 6.1 percent (see Table 3.14-6).

10 **Table 3.14-6. Projected WBMWD Supply and Demand**

Water Supply	Projected Water Supply (AF)					
	2015	2020	2025	2030	2035	2040
Potable and Raw Water	106,259	99,426	100,154	100,173	100,413	99,991
Recycled Water	29,110	38,894	44,135	44,135	44,135	44,135
Total	135,369	138,320	144,289	144,308	144,548	144,126

11 Notes: AF = acre-feet
 12 Source: West Basin Municipal Water District 2016.

13 Water Demand

14 Total water demand for the Hermosa-Redondo District in 2015 equated to 10,765 AF, 1,294 AF
 15 of which was used for groundwater recharge (see Table 3.14-7) (Cal Water 2016). Of total district
 16 demand, the largest percentage of water use is attributed with residential uses, accounted for
 17 approximately 63.4 percent of Hermosa-Redondo District’s total demand, with remaining
 18 demands attributed to commercial, industrial, and institutional uses. An additional 458 AF, or
 19 approximately 4.2 percent of total district demand, was attributed to system water losses. These
 20 current totals of water demand slightly differs from the projections in the PLAN Hermosa EIR,
 21 which assumes that total water demand in 2015 was 14,506 AF (City of Hermosa Beach 2017).
 22 The PLAN Hermosa EIR is based on the 2010 Urban Water Management Plan (UWMP), whereas
 23 Table 3.14-7 is based on the 2015 UWMP Update (West Basin Municipal Water District 2016b).

1 The PLAN Hermosa EIR was drafted prior to the 2015 UWMP Update; therefore, Table 3.14-7
2 reflects more current and accurate data.

3 **Table 3.14-7. Hermosa-Redondo District 2015 Water Demand by Use**

Use Type	Volume (AF)	Percent of Total Demand
Single Family	4,897	45.5
Multi-Family	1,928	17.9
Commercial	1,272	11.8
Industrial	582	5.4
Institutional/Governmental	329	3.1
Other	4	0.0
Losses	458	4.2
Groundwater Recharge	1,294	12.0
Total	10,765	100

4 AF = acre-feet
5 Source: Cal Water 2016.

6 Water service to the Project site is currently provided through an existing underground 8-inch
7 water main located along Beach Drive, an underground 6-inch water line located along 13th Court,
8 and an underground 12-inch water line running along 13th Street. The average daily demand for
9 water service for the existing Project site is approximately 20,258 gpd (approximately 22.71 AFY),
10 with a peak flow of approximately 50,645 gpd (approximately 56.77 AFY) (see Table 3.14-8).

11 Drought Conditions

12 In April 2015, California Governor Brown ordered a statewide 25 percent reduction in urban water
13 use, the first ever statewide mandatory water reduction. In response, the MWD announced a
14 15-percent cutback in water allowances to its member agencies beginning on July 1, 2015 to help
15 meet the Governor's statewide restriction. As a result of extended drought conditions, both
16 Cal Water and WBMWD water service agencies have elected to pursue measures which would
17 ensure the reliability of water supplies, reduce customer water usage, and promote water
18 conservation measures.

1 **Table 3.14-8. Estimated Existing Water Demand**

Parcels	Existing Use	Water Generation (gpd/unit) ²	Quantity	Average Daily Flow (gpd)	Peak Daily Flow (gpd)
4183-002-001 (Block 1, 2, and 3)	Mermaid Restaurant	30 gpd/1,000 sf	7,222 sf	217	542
4183-002-002 (Block 4) 4183-002-003	Mermaid Restaurant, The Deck, and Good Stuff	60 gpd/seat	160 seats	9,600	24,000
4183-002-017 (Block 19, 20, and 31)	Playa Hermosa Fish & Oyster Co., Pier Surf Shop, Hooked, Jacob Shaw, Inc.	60 gpd/seat	134 seats	8,040	20,100
4183-002-004	Hermosa Cyclery	120 gpd/1,000 sf	6,010 sf	721	1,803
4183-002-018	Residential Apartments	180 gpd/DU	4 DU	720	1,800
4183-002-019	Residential Apartments	240 gpd/DU	4 DU	960	2,400
Total Existing Daily Flow				20,258	50,645

2 Notes:

3 ¹Project Areas as defined in Appendix J.4 ²Water Demands as defined in Appendix J.

5 DU = Dwelling Units

6 1,000 gpd = 1.12 AFY

7 As required of all urban water suppliers by the California Department of Water Resources (DWR),
8 Cal Water has prepared a responsive Water Shortage Contingency Plan designed to effectively
9 enforce staged water use restrictions based on district water demands, agency supplies, and varying
10 drought conditions. Likewise, WBMWD, as part of development of its UWMP, has completed a
11 Water Supply Allocation Plan designed to calculate member agency supply allocations in order to
12 meet State mandated water use reduction targets. Through implementation of these strategic plans,
13 the Cal Water Hermosa-Redondo District has effectively achieved a 18 percent reduction in water
14 usage since 2013 (Cal Water 2016), and the WBMWD has achieved a 27 percent reduction in
15 water usage since 1995 (West Basin Municipal Water District 2016a).

16 Due to the conservation efforts of both service customers, State residents, and urban water supply
17 agencies, Governor Brown issued Executive Order (EO) B-37-16 on May 9, 2016. This new EO
18 requires continued statewide water conservation measures through the end of January 2017 and
19 allows for varying water conservation regulations across the State to account for differing water
20 supply conditions and agency conservation measures. EO B-40-17, signed on April 7, 2017 ended

1 the drought state of emergency in all California counties except Fresno, Kings, Tulare, and
2 Tuolumne, where emergency drinking water projects will continue to help address diminished
3 groundwater supplies. However, the EO maintains water reporting requirements and prohibitions
4 on wasteful practices. Further, EO B-37-16, and the associated water use efficiency framework,
5 remains in effect (California Department of Water Resources 2017).

6 **3.14.6 Regulatory Framework - Potable Water Services**

7 Federal Regulations

8 There are no Federal regulations that pertain to potable water services or resources.

9 State Regulations

10 *California Governor's Drought Declarations*

11 California Governor Brown on January 17, 2014 proclaimed a State of Emergency and directed
12 state officials to take all necessary actions to make water immediately available. On April 25,
13 2014, the Governor issued an EO to speed up actions necessary to reduce harmful effects of the
14 drought, and he called on all Californians to redouble their efforts to conserve water. On December
15 22, 2014 Governor Brown issued EO B-28-14 extending directives to the California DWR and the
16 State Water Resources Control Board (SWRCB) to take actions necessary to make water
17 immediately available through May 31, 2016 and to extend CEQA suspensions for certain water
18 supply projects. On April 1, 2015, the governor issued EO B-29-15. Key provisions include
19 ordering the SWRCB to impose restrictions to achieve a 25-percent reduction in potable urban
20 water usage through February 28, 2016. On May 9, 2016, the governor issued EO B-37-16,
21 establishing longer-term water conservation measures through the end of January 2017, which
22 include monthly water use reporting, strengthened urban drought contingency plans, elimination
23 of wasteful water use practices, and mandated adjustments to emergency water conservation
24 regulations and restrictions during extended drought conditions. These extended water
25 conservation measures recognize differing water supply conditions for many communities, and
26 require that communities develop water efficiency measures and conservations plans specific to
27 the conditions of their respective water supply. The Governor's drought declaration also calls upon
28 local urban water suppliers and municipalities to implement their local water shortage contingency
29 plans immediately in order to avoid or forestall outright restrictions that could become necessary
30 later in the drought season. EO B-40-17, signed on April 7, 2017 ended the drought state of
31 emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne, where
32 emergency drinking water projects will continue to help address diminished groundwater supplies.
33 However, the EO maintains water reporting requirements and prohibitions on wasteful practices.

1 Further, EO B-37-16, and the associated water use efficiency framework, remains in effect
2 (California Department of Water Resources 2017).

3 *Porter-Cologne Water Quality Act*

4 The Porter-Cologne Water Quality Act of 1969 (Cal Water Code §13000 et seq.) is the water
5 quality control law for California. The act established the SWRCB and divided the state into nine
6 regional basins, each under the jurisdiction of a RWQCB. The SWRCB is the primary State agency
7 responsible for the protection of California’s water quality and groundwater supplies. The
8 RWQCBs carry out the regulation, protection, and administration of water quality in each region.
9 Each RWQCB is required to adopt a water quality control plan or basin plan that recognizes and
10 reflects the regional differences in existing water quality, the beneficial uses of the region’s ground
11 and surface water, and local water quality conditions and problems.

12 *California Water Plan: Update 2013*

13 The California Water Plan: Update 2013 provides a framework for water managers, legislators,
14 and the public to consider options and make decisions regarding California’s water future. The
15 plan outlines actions that together bring reliability, restoration, and resilience to California water
16 resources, reinforcing the value of integrated water management, and examining policies that
17 allow water managers to combine flood management, environmental stewardship, and surface
18 water and groundwater supply.

19 *Urban Water Management Planning Act*

20 The Urban Water Management Planning Act (California Water Code Division 6, Part 2.6, Sections
21 10610 et seq.) was developed due to concerns over potential water supply shortages throughout
22 California. It requires information on water supply reliability and water use efficiency measures.
23 Urban water suppliers are required, as part of the Act, to develop and implement UWMPs to
24 describe water supply, service area demand, population trends and efforts to promote efficient use
25 and management of water resources. An UWMP is intended to serve as a water supply and demand
26 planning document that is updated every 5 years to reflect changes in the water supplier’s service
27 area including water supply trends, and conservation and water use efficiency policies.
28 Specifically, municipal water suppliers that serve more than 3,000 customers or provide more than
29 3,000 AFY must adopt an UWMP.

30 *California Water Code Sections 10910 et seq.*

31 Senate Bill (SB) 610 was adopted in 2001 and amended the statutes of the Urban Water
32 Management Planning Act, as well as the California Water Code (CWC) Sections 10910 et seq.

1 SB 610 reflects the growing awareness of the need to incorporate water supply and demand
2 analysis at the earliest possible stage in the land use planning process.

3 CWC Section 10910 requires that for specified projects subject to CEQA, the urban water supplier
4 must prepare a Water Supply Assessment (WSA) that determines whether the projected water
5 demand associated with a proposed project is included as part of the most recently adopted UWMP.
6 Specifically, the WSA identifies adequate available water supplies necessary to meet the demand,
7 as well as the cumulative demand for the general region over the next 20 years, under average,
8 single dry, and multiple dry year water conditions. Under CWC Section 10910, a WSA need only
9 be prepared if a project exceeds the following specific thresholds of development:

- 10 a) A proposed residential development of more than 500 dwelling units.
- 11 b) A proposed shopping center or business establishment employing more than 1,000 persons
12 or having more than 500,000 square feet (sf) of floor space.
- 13 c) A commercial building employing more than 1,000 persons or having more than 250,000
14 sf of floor space.
- 15 d) A hotel or motel with more than 500 rooms.
- 16 e) A proposed industrial, manufacturing, or processing plant, or industrial park, planned to
17 house more than 1,000 persons, occupying more than 40 acres of land, or having more than
18 650,000 sf of floor area.
- 19 f) A mixed-use project that includes one or more of these elements.
- 20 g) A project creating the equivalent water demand of 500 residential units.

21 The WSA must be approved by the public water system at a regular or special meeting and must
22 be incorporated into the CEQA document. The Lead Agency must then make certain findings
23 related to water supply based on the water supply assessment. In addition, under SB 610, an urban
24 water supplier responsible for the preparation and periodic updating of an UWMP must describe
25 the water supply projects and programs that may be undertaken to meet the total projected water
26 use of the service area.

27 *2009 Water Conservation Act (SB x7-7)*

28 SB x7-7 was enacted in November 2009, requiring all water suppliers to increase water use
29 efficiency. The legislation sets an overall goal of reducing per capita urban water use by December
30 31, 2020 through water use targets for urban water suppliers, water management plans, and best
31 management practices. Urban retailers can achieve the SB x7-7 goal using one of four specified
32 methods:

- 1 a) Option 1: 80 percent of baseline use (reduction of 20 percent).
- 2 b) Option 2: Sum of specified performance standards.
- 3 c) Option 3: 95 percent of California Department of Water Resources Hydrologic Region
- 4 target from draft 20x2020 plan.
- 5 d) Option 4: A flexible alternative designed to adjust to local circumstances.

6 Urban retail water suppliers must monitor and report compliance on an individual or regional basis.
7 Individual urban retail water suppliers are not required to achieve a reduction in urban per capita
8 water use greater than 20 percent. Compliance with the water reduction target is required for
9 continued State water grants and loan eligibility. After 2021, failure of urban retail water suppliers
10 to meet their targets establishes a violation of law for administrative or judicial proceedings.

11 Local Regulations

12 *PLAN Hermosa*

13 The City recently adopted the integrated General Plan and LCP (collectively referred to as PLAN
14 Hermosa) on August 22, 2017. This updated document contains goals and policies in the
15 Infrastructure Element related to utilities that apply to the proposed Project. These policies include
16 (but are not limited to):

17 **Goal 3.** Adequate water supplies from diverse sources provide for the needs of current and future
18 residents, businesses, and visitors.

19 **Policy 3.2 Alternative water supplies.** Pursue expansion of recycled water infrastructure
20 and other alternative water supplies to meet water demands of the community that cannot
21 be offset through conservation measures.

22 **Policy 3.3 Recycled water infrastructure.** Encourage the use and integration of dual
23 plumbing system hookups to accommodate recycled water into new development.

24 **Policy 3.6 Water infrastructure.** Support the development of water storage, recycling,
25 greywater treatment, and necessary transmission facilities to meet necessary water demand.

26 *Hermosa Beach Municipal Code*

27 Section 15.48.020 of the HBMC modifies the California Green Building Standards Code, requiring
28 new residential and nonresidential buildings to minimize indoor water use and increase water use
29 efficiency. The section also includes requirements for water heating design, equipment, and

1 installation; utilization of water permeable surfaces; and, stormwater design requirements for
2 nonresidential buildings, including LID strategies.

3 *Sustainability Plan*

4 Adopted by City Council in 2011, the Hermosa Beach Sustainability Plan was designed to shape
5 the City in a manner that supports and promotes the goal of establishing the City as a leader in
6 sustainability. Section 4 of the Sustainability Plan focuses on water resources and water
7 conservation measures to reduce potable water use and encourage the implementation of strategies
8 for utilization of recycled water, water-efficient landscaping, grey water reuse, urban and
9 stormwater retention, and infiltration for groundwater recharge.

10 **3.14.7 Impact Assessment and Methodology - Potable Water Services**

11 Thresholds for Determining Significance

12 The following thresholds of significance are based on Appendix G of the 2018 CEQA Guidelines.
13 For purposes of this EIR, implementation of the proposed Project may have a significant adverse
14 impact on water supply and infrastructure if:

- 15 a) The project would require or result in the construction of new water facilities or expansion
16 of existing facilities, the construction of which could cause significant environmental
17 effects.
- 18 b) The project would not have sufficient water supplies available to serve the project from
19 existing entitlements and resources, or are new or expanded entitlements needed.

20 Methodology

21 The proposed Project was evaluated for impacts to potable water utilities based on data published
22 by the WBMWD and Cal Water, information provided by the City's Existing Conditions Report
23 (City of Hermosa Beach 2014), and a Water and Sewer Technical Report for the proposed Project
24 (Fusco Engineering, Inc. 2016) and peer reviewed by City Public Works Department Staff.

25 The Initial Study (see Appendix A) determined that the proposed Project would result in
26 potentially significant impacts to all thresholds associated with potable water utilities. Potential
27 impacts of the proposed Project were evaluated by reviewing the characteristics of the proposed
28 mixed-use hotel to assess their potential to affect the capacities of potable water utilities. Projected
29 utility demands for the proposed Project were compared with the current capacity available for
30 allocation within the City. Potential impacts resulting from the proposed Project were compared
31 with criteria from CEQA Appendix G and the City's General Plan EIR to assess their significance.

1 **3.14.8 Project Impacts and Mitigation Measures - Potable Water Services**

2 Impact Description

3 *Would the project require or result in the construction of new water facilities or expansion of*
4 *existing facilities; or not have sufficient water supplies available to serve the project from existing*
5 *entitlements and resources?*

6 **UT-2 The proposed Project would increase water demand; however, the proposed**
7 **Project would not result in the need to expand or construct new water**
8 **facilities. The proposed mixed-use hotel would be adequately served by**
9 **existing water supplies; therefore, impacts are *less than significant*.**

10 The proposed Project would utilize City water for construction, operation, and landscaping, along
11 with the proposed greywater system on-site. Water demand for the construction of the proposed
12 Project would be required for dust control, cleaning of equipment, excavation/export of materials,
13 removal and re-compaction of soils, and any rough grading. The approximate average water daily
14 use during construction is anticipated to be 1,500 gpd (Fusco Engineering, Inc. 2016). The
15 expected construction schedule is 29 months. Based on the approximate average daily use and
16 construction time, the proposed Project would utilize approximately 850,000 gallons of water. Any
17 increased water use during construction would be limited and would be within the availability of
18 the City's water supply and well below the estimated daily operational demand (Fusco
19 Engineering, Inc. 2016). The proposed Project would require construction of new on-site water
20 distribution lines to serve the proposed mixed-use hotel building. Construction impacts associated
21 with installation of water distribution lines would primarily involve trenching in order to place the
22 lines below surface or hanging distribution lines from the parking garage walls (Fusco
23 Engineering, Inc. 2016). Interruptions to water service during construction would be short-term
24 and temporary and would not have substantial effects on surrounding properties along The Strand
25 and Pier Plaza. Therefore, impacts on potable water use associated with construction activity
26 would be *less than significant*.

27 Development of the site for proposed Project operations would increase on-site water demand and
28 impacts to the City's water supply would be potentially significant. Development of the Project
29 site as a mixed-use hotel would result in increased water demand over the current demand of
30 commercial and residential uses on-site. Under the proposed Project, water demands would
31 increase significantly (i.e., by 252 percent) due to the higher density of hotel and commercial uses
32 (Fusco Engineering, Inc. 2016). A total of 100 hotel rooms and over 5,500 square feet of

1 commercial area are proposed; water demands based on proposed land uses of the Project site are
 2 described in Table 3.14-9 below.

3 **Table 3.14-9. Estimated Proposed Water Demand**

Proposed Use	Water Consumption (gpd /unit) ¹	Quantity	Average Daily Water Demand (gpd)	Peak Flow Demand (gpd) ²
Hotel	180/room	100 rooms	18,000	45,000
Commercial Shops & Stores	120 gpd/1,000 SF	5,522 SF	663	1,657
Restaurants	60/seat	500 seats	30,000	75,000
Bars, Cocktail Lounges, etc.	24/seat	879 seats	21,096	52,740
Parking	30/1,000 SF	53,209 SF	1,596	3,991
Total Proposed Daily Water Consumption (gpd)			71,355	178,388
Total Proposed Water Demand (AF-YR)			80	--
Total Existing Water Demand (gpd)			20,258	50,645
Net Water Demand			+51,097	+127,742

4 Notes:
 5 ¹Water Demands based on sewer flow estimates from County of Los Angeles Sewer Generation Factors (+ 20 percent multiplier)
 6 ²Peak flow demand is based on a peak factor of 2.5
 7 Source: (Fusco Engineering, Inc. 2016).

8 The average daily operational water flow for the proposed Project is approximately 71,355 gpd,
 9 with peak flow at approximately 178,388 gpd (Fusco Engineering, Inc. 2016). Although net
 10 average daily water demand would increase by 51,097 gpd, no upgrades to public water mains are
 11 anticipated under the proposed Project. The City’s potable water system has the infrastructure and
 12 the capacity to serve the proposed Project. Cal Water has provided a will serve letter to the
 13 Applicant indicating that after all of the required permits are obtained, Cal Water will provide
 14 water service in accordance with the rules and regulations of the California Public Utilities
 15 Commission (CPUC). No new or expanded water entitlements are necessary for the Project.

16 Additionally, the Project would include LID BMPs, including capture and reuse of stormwater,
 17 with installation of a grey water cistern system on the bottom floor of the subterranean parking
 18 structure. The 17,400-gallon cistern system would capture 100 percent of storm water volumes
 19 and would also serve as the reservoir for proposed greywater recycling. Proposed uses for captured
 20 storm water and greywater include landscape irrigation and architectural water features, water for
 21 mechanical cooling towers, and water for toilet flushing. Overall, the proposed Project would be
 22 consistent with the City’s policies (e.g., City’s Green Building Code) and impacts on potable water
 23 use associated with Project operations would be *less than significant*.

1 Cumulative Impacts

2 The geographic context for cumulative impacts analysis on local water supplies is the Cal Water
3 Hermosa-Redondo District. The Project's contribution to cumulative impacts on local water
4 supplies would be incremental in comparison to existing and future planned water supplies in the
5 Hermosa-Redondo District. Compliance of the proposed Project and future development projects
6 with regulatory requirements that promote water conservation such as the HBMC, which includes
7 the City's Green Building Code, as well as Assembly Bill (AB) 32, would also assist in ensuring
8 that adequate water supply is available on a cumulative basis. The Project also involves beneficial
9 water reducing features, such as the grey water and stormwater capture cistern system, which
10 would reduce the Project's potable water demand by reusing water for landscape irrigation,
11 architectural features, and other indoor greywater uses. The Project would comply with regulatory
12 standards to implement water conservation strategies and minimize indoor water use. Therefore,
13 the Project's contribution to cumulative impacts on potable water supplies would be *less than*
14 *significant*.

15 **3.14.9 Environmental Setting - Solid Waste Disposal**

16 Solid waste services for the City and Project site are provided by Athens Services, a commercial
17 vendor providing solid waste haul and disposal service throughout Southern California. Athens
18 Services provides residential and commercial solid waste collection and recycling services
19 throughout the City and manages several Materials Recovery Facilities (MRF) located in the Los
20 Angeles County area. Solid waste collected in the City is hauled to the Athens Services MRF
21 located in the City of Industry, where it is sorted and recycled before being transported to a range
22 of certified landfills (City of Hermosa Beach 2014). Solid waste received at the City of Industry
23 MRF can be processed at a maximum capacity of 5,000 tons per day (TPD) and is sorted and
24 recycled to ensure compliance with State-mandated waste diversion rates of 75 percent under
25 AB 341. Once sorted, solid waste materials are transported to a variety of landfills located
26 throughout the County and Southern California (see Table 3.14-10). Household hazardous waste
27 materials are disposed of at the Playa Del Rey Hyperion S.A.F.E. Center operated by the City of
28 Los Angeles Bureau of Sanitation.

1 **Table 3.14-10. Summary of Landfills Receiving City Waste**

Facility Name	Average Waste Quantities Received (TPD) (2014)	Permitted Daily Capacity (TPD)	Remaining Permitted Capacity (CY)	Estimated Cease Operations Date
Antelope Valley Recycling and Disposal Facility	1,433	1,800	14,944,183	2041
Azusa Land Reclamation	1,012	6,500	59,825,036	2045
Chiquita Canyon landfill	3,558	6,000	1,833,353	2016
Lancaster Landfill	311	3,000	12,009,106	2041
Southeast Resources Recovery Facility	1,470	2,240	N/A	N/A
Sunshine Canyon City/County Landfill	7,582	12,100	64,688,021	2037
Total	15,336	31,640	1.4 billion	N/A

2 Source: County of Los Angeles 2015.

3 **3.14.10 Regulatory Framework - Solid Waste Disposal**

4 Federal Regulations

5 There are no Federal regulations that pertain to solid waste resources.

6 State Regulations

7 *California Integrated Waste Management Act (Assembly Bill 939)*

8 The California Integrated Waste Management Act (CIWMA) of 1989 established an integrated
9 waste management hierarchy to guide the California Integrated Waste Management Board and
10 local agencies in implementation, in order of priority: 1) source reduction; 2) recycling and
11 composting; and 3) environmentally safe transformation and land disposal. The Act required each
12 county to establish a task force to coordinate the development of city Source Reduction and
13 Recycling Elements (SRREs) and a countywide siting element. The Act also required each county
14 to prepare, adopt, and submit to the Board an Integrated Waste Management Plan (IWMP).

15 Additionally, waste diversion mandates were set in AB 939. The law required each city or county
16 plan to include an implementation schedule which shows: diversion of 25 percent of all solid waste
17 from landfill or transformation facilities by January 1, 1995 through source reduction, recycling,
18 and composting activities; and, diversion of 50 percent of all solid waste by January 1, 2000
19 through source reduction, recycling, and composting activities. A city or county may be deemed
20 exempt from these goals or to reduce the requirements if the city or county demonstrates that
21 attainment of the goals is not feasible due to the small geographic size of the jurisdiction and the

1 small quantity of waste generated. After January 1, 1995, the Act authorized the Board to establish
2 an alternative goal to the 50 percent requirement, if the Board finds that the local agency is
3 effectively implementing all source reduction, recycling, and composting measures to the
4 maximum extent feasible.

5 *SB 1016*

6 SB 1016 builds on AB 939 compliance requirements by implementing a simplified measure of
7 jurisdictions' performance. SB 1016 accomplishes this by changing the measurement of waste
8 reduction from a diversion rate to a disposal-based indicator – the per capita disposal rate. The
9 purpose of the per capita disposal measurement system is to make the process of goal measurement
10 as established by AB 939 simpler, more timely, and more accurate. Beginning with reporting year
11 2007 jurisdiction annual reports, diversion rates will no longer be measured. With the passage of
12 SB 1016, only per capita disposal rates are measured. For 2007 and subsequent years, the
13 California Department of Resources Recycling and Recovery (CalRecycle) compares reported
14 disposal tons to population to calculate per capita disposal expressed in pounds/person/day.

15 *Assembly Bill (AB) 341*

16 AB 341 established a State policy goal that no less than 75 percent of solid waste generated be
17 source reduced, recycled, or composted by 2020, and requiring CalRecycle to provide a report to
18 the Legislature that recommends strategies to achieve the policy goal by January 1, 2014. AB 341
19 mandates local jurisdictions to implement commercial recycling by July 1, 2012. AB 341 requires
20 any business (including schools and government facilities) that generates 4 cubic yards or more of
21 waste per week, and multifamily buildings with five or more units to arrange for recycling services.

22 Local Regulations

23 *PLAN Hermosa*

24 The City recently adopted the integrate General Plan and LCP (collectively referred to as PLAN
25 Hermosa) on August 22, 2017. This updated document contains goals and policies in the
26 Sustainability and Conservation Element related to utilities that apply to the proposed Project.
27 These policies include, but are not limited to:

28 **Goal 4.** A leader in reducing energy consumption and renewable energy production.

29 **Policy 4.5 Sustainable building standards.** Use sustainable building checklists to
30 minimize or eliminate waste and maximize recycling in building design, demolition, and
31 construction activities.

1 *Hermosa Beach Municipal Code*

2 Chapter 8.12, *Solid Waste Collection and Disposal*, of the HBMC establishes regulations regarding
3 the collection and disposal of commercial, industrial, and residential solid waste, and regulates the
4 cost of such services.

5 **3.14.11 Impact Assessment and Methodology - Solid Waste Disposal**

6 Thresholds for Determining Significance

7 The following thresholds of significance are based on Appendix G of the 2018 CEQA Guidelines.
8 For purposes of this EIR, implementation of the proposed Project may have a significant adverse
9 impact on solid waste if:

- 10 a) The project would not be served by a landfill with sufficient permitted capacity to
11 accommodate the project's solid waste disposal needs.
- 12 b) The project would not comply with federal, state, and local statutes and regulations related
13 to solid waste.

14 Methodology

15 The proposed Project was evaluated for impacts to solid waste facilities based on data published
16 in the County of Los Angeles Countywide Integrated Waste Management Plan and City of
17 Hermosa Beach Sustainability Plan, as well as information provided by the City's Existing
18 Conditions Report (City of Hermosa Beach 2014).

19 The Initial Study (see Appendix A) determined that the proposed Project would result in
20 potentially significant impacts to all thresholds associated with solid waste facilities. Potential
21 impacts of the proposed Project were evaluated by reviewing the characteristics of the proposed
22 mixed-use hotel to assess their potential to affect capacities of solid waste disposal facilities.
23 Projected solid waste demands for the proposed Project were compared with the current capacity
24 available for allocation within the City. Potential impacts resulting from the proposed Project were
25 compared with criteria from CEQA Appendix G and the City's General Plan EIR to assess their
26 significance.

1 **3.14.12 Project Impacts and Mitigation Measures - Solid Waste Disposal**

2 Impact Description

3 *Would the project be served by a landfill that does not have sufficient permitted capacity to*
4 *accommodate the solid waste disposal needs; or not comply with federal, state, and local statutes*
5 *and regulations related to solid waste?*

6 **UT-3 The proposed Project would comply with all Federal, State, and local**
7 **regulations related to solid waste and would be served by a landfill with**
8 **sufficient permitted capacity to accommodate the proposed Project's solid**
9 **waste disposal needs. Therefore, impacts would be *less than significant*.**

10 Implementation of the proposed Project would result in the need for solid waste disposal at the
11 County's landfills. Construction of the proposed Project would generate construction and
12 demolition waste, such as asphalt, concrete, glass, and wood. During construction, an estimated
13 42,700 cubic yards of soil would need to be exported and disposed of, in addition to demolished
14 materials from existing on-site structures. It is anticipated that most the excavated soils could be
15 used as fill at other locations. Further, a portion of the construction-related demolition waste would
16 be recycled at an off-site facility (e.g., Waste Management - Construction & Demolition Recycling
17 Facility in Los Angeles), with the remainder likely disposed of at a sanitary landfill. Such material
18 would be disposed of at the Lancaster Landfill, Antelope Valley Landfill, or Sunshine Canyon
19 Landfill, all of which are located in Los Angeles County and have adequate capacity (see Table
20 3.14-10). These landfills are not expected to cease operations for at least 20 years. Amount of
21 construction-related waste that would be recycled could decrease incrementally if asbestos is
22 discovered in any of the demolition material. If any asbestos is discovered in building demolition
23 materials, it would be hauled away by a registered hazardous waste transporter to the Playa Del
24 Rey Hyperion S.A.F.E. Center operated by the City's Bureau of Sanitation. Solid waste generated
25 during operation, as well as construction and demolition material, would not exceed the capacity
26 of Athens Services facility and other local and regional solid waste facilities. The proposed Project
27 would comply with all established local, regional, and statewide solid waste regulations.
28 Therefore, impacts to solid waste generation resulting from the proposed Project would be *less*
29 *than significant*.

30 Cumulative Impacts

31 The proposed Project's contribution to cumulative solid waste generation impacts would be
32 incremental in comparison to existing and future planned capacities of local solid waste disposal

1 facilities. Existing solid waste disposal facilities in Los Angeles County have sufficient remaining
2 capacity to serve the Project and other cumulative projects in the County (see Table 3.14-10). The
3 Los Angeles County Department of Public Works (LACDPW) has estimated an annual landfill
4 disposal demand for the period 2014–2029 in relation to remaining capacity of such facilities. The
5 estimate is based on population projections, per capita solid waste generation, current (60 percent)
6 and future (75 percent) diversion, and availability of transformation and alternative technology
7 facilities (City of Hermosa Beach 2017). Although the population and amount of solid waste
8 generated would increase, the amount of solid waste landfilled is expected to decrease due to the
9 increased diversion rate and policies contained in PLAN Hermosa that would decrease demand for
10 solid waste disposal. Further, in its 2014 annual report, the LACDPW (2015) determined that the
11 cumulative demand on landfill disposal capacity, approximately 99.8 million tons, will not exceed
12 the 2014 remaining permitted capacity of 112 million tons (City of Hermosa Beach 2017). The
13 proposed Project’s contribution to cumulative demand on landfill disposal facilities would be
14 negligible in comparison to remaining capacity of such facilities, and would not be cumulatively
15 considerable. Compliance of the Project and future development projects with regulatory
16 requirements that promote diversion of solid waste, such as the HBMC and the California
17 Integrated Waste Management Act, would also assist in ensuring that solid waste facilities have
18 adequate capacity to serve solid waste generation on a cumulative basis. Therefore, the Project’s
19 contribution to cumulative impacts on solid waste facilities would be *less than significant*.

20 3.14.13 Environmental Setting - Energy Resources

21 California is the most populated State in the U.S. and is rated the world’s eighth largest economy.
22 To service such a large population and economy, energy is provided by approximately 81 load
23 serving entities, sending power through 200,000 miles of overhead transmission and distribution
24 lines and 70,000 miles of additional underground lines. In 2014, power generation within the State
25 equated to approximately 196,195 gigawatt hours (GWh), while approximately 99,210 GWh of
26 power were imported into the State (California Energy Commission [CEC] 2016a).

27 Electricity

28 The production of electricity requires the consumption or conversion of energy resources including
29 natural gas, coal, water, nuclear, and renewable resources such as wind, solar, and geothermal.
30 Energy, natural gas, and renewable energy production, consumption, research, and conservation
31 within the state of California are maintained by the CEC. In 2015, approximately 59.9 percent of
32 the total electrical generation within the State came from natural gas, 9.4 percent came from
33 nuclear, 5.9 percent came from large (non-renewable) hydroelectric power, 0.3 percent came from
34 coal, and 24.5 percent came from renewable sources (see Table 3.14-11). Renewable energy

1 sources used to produce electricity include geothermal, small hydroelectric power, wind power,
 2 biomass and waste products, and solar energy (CEC 2016a). In 2014, California consumed
 3 approximately 281,916 GWh of electricity (CEC 2015a). Energy consumption alone is anticipated
 4 to increase at a rate of 1.27 percent annually as the population in California grows over the next
 5 few years (CEC 2013).

6 **Table 3.14-11. Southern California Edison Electricity Mix**

Energy Resources	2015 SCE Power Mix (Actual)	2015 CA In-State Generation	Total California Power Mix (In-State Plus Imported)
Eligible Renewable	25%	24.5%	21.9%
Biomass & Waste	1%	3.2%	2.6%
Geothermal	9%	6.1%	4.4%
Small Hydroelectric	0%	1.2%	0.9%
Solar	7%	7.7%	6.0%
Wind	8%	6.2%	8.2%
Coal	0%	0.3%	6.0%
Large Hydroelectric	2%	5.9%	5.4%
Natural Gas	26%	59.9%	44.0%
Nuclear	6%	9.4%	9.2%
Other	0%	0%	0%
Unspecified Sources of Power ¹	41%	N/A	13.5%
Total	100%	100%	100%

7 Notes: ¹ “Unspecified Sources of Power” means electricity from transactions that are not traceable to specific generation sources.
 8 Source: CEC 2016a; SCE 2016.

9 SCE is the primary local public utility and energy supplier that services most Southern California –
 10 including the Project site – via a statewide network of power plants and transmission lines. SCE
 11 has delivered electricity to Central and Southern California for more than 125 years as one of the
 12 nation’s largest electric utilities, conveying electric power to approximately 14 million people in a
 13 50,000 square-mile area across 15 counties (i.e., Fresno, Imperial, Inyo, Kern, Kings, Los Angeles,
 14 Madera, Mono, Orange, Riverside, San Bernardino, Santa Barbara, Tuolumne, Tulare, and Ventura)
 15 (SCE 2007, 2015). Within Los Angeles County, total electricity consumption equaled 69,529 GWh
 16 in 2015 (CEC 2016b), or approximately 24.6 percent of the State’s 2014 annual energy consumption.

17 Various transmission and distribution lines traverse the City, serving to carry electrical power from
 18 power plants within the County to electrical substations where power is converted to voltages
 19 suitable for distribution to end-users. Most the City’s electrical transmission lines run underground
 20 and follow existing street rights-of-way. Electrical service for the Project site is currently provided
 21 by an existing underground utility line located within the rights-of-way along 13th Court and Beach

1 Drive. Individual building service connections are made to the existing underground electrical
 2 transmission lines along Beach Drive. An underground electrical vault allowing maintenance and
 3 shut off electrical transmission facilities is located adjacent to the existing surface parking lot at the
 4 southwest corner of the Project site, within the pedestrian corridor of Pier Plaza. In 2012, City-wide
 5 electricity demand equated to 90,970,282 kilowatt hours (kWh) (90.97 GWh), approximately 53.6
 6 percent of which was associated with domestic residential demand and 13.3 percent associated with
 7 non-residential demands (see Table 3.14-12). Since 2009, City demand for electricity has been
 8 reduced by over 9 percent.

9 **Table 3.14-12. Estimated City-wide Electricity Consumption**

Rate Class	Rate Class Description	2009 (kWh)	2010 (kWh)	2011 (kWh)	2012 (kWh)
Domestic	Residential	50,190,864	49,906,427	50,200,614	49,778,450
GS-1	Non-residential	10,897,087	10,513,133	10,493,798	11,253,695
GS-2	Non-residential	29,733,546	28,282,699	844,826	872,214
Street Lighting	Street Lighting	9,701,884	9,673,561	64,204	66,719
TC-1	Traffic Control Lighting	76,345	76,346	-	-
TOU-GS	Time-of-Use Non-residential	-	-	27,954,246	28,999,204
Total		100,599,726	98,452,166	89,557,688	90,970,282
Percent Change from Previous Year		-	-2.13%	-9.03%	+1.575

10 Source: City of Hermosa Beach 2014.

11 Natural Gas

12 Natural gas is a fossil fuel formed when layers of buried organic matter are exposed to intense heat
 13 and pressure over thousands of years. The energy is stored in the form of hydrocarbons and can be
 14 extracted in the form of natural gas. Natural gas is combusted to generate electricity, enabling this
 15 stored energy to be transformed into usable power or used directly for heating, cooking, and other
 16 use. Natural gas consumed in California is largely extracted from onshore and offshore sites from
 17 the Southwestern U.S. (38 percent), Rocky Mountain States (36 percent), Canada (16 percent),
 18 and within California (10 percent) (CEC 2015b). In 2014, California consumed approximately
 19 10,208 million therms¹ of natural gas (CEC 2016c) and as the population in California grows over
 20 the next few years, consumption of natural gas is anticipated to steadily increase at a rate of 0.04

¹ Approximately the energy equivalent of burning 100 cubic feet of natural gas; equal to 100,000 British thermal units.

1 to 0.06 percent annually, with potential to decrease due to expanding natural gas conservation
 2 measures (CEC 2013).

3 Natural gas services are provided to the Project site by SoCalGas, which has delivered natural gas
 4 throughout Central and Southern California for more than 145 years as the nation’s largest natural
 5 gas distribution utility. In 2014, the City consumed a total of 4.27 million therms of natural gas, or
 6 approximately 0.041 percent of California’s annual natural gas consumption (see Table 3.14-13).
 7 Natural gas service for the Project site is currently provided by underground 3-inch natural gas
 8 lines located within the right-of-way of 13th Court and Beach Drive.

9 **Table 3.14-13. Estimated City-wide Natural Gas Consumption (2010)**

Sector	Natural Gas Use (therms)	Percent of Total
Non-residential	827,116	19%
Multi-Family	558,322	13%
Single-Family	2,889,688	68%
Total	4,275,126	100%

10 Source: City of Hermosa Beach 2014.

11 Petroleum and Transportation Fuel

12 Petroleum is a thick, flammable mixture of gaseous, liquid, and solid hydrocarbons that occur
 13 naturally underground and can be separated into fractions to be used as raw materials for a variety
 14 of derivative products including gasoline and diesel fuels for use in automobiles (American
 15 Association of Petroleum Geologists [AAPG] 2016). California is currently the third-largest oil-
 16 producing State in the nation, behind Texas and Alaska; in 2014, 205.2 million barrels of oil
 17 (MMBO) were produced in California with an average production of 562,200 barrels of oil per
 18 day (BOPD) (California Department of Conservation, Division of Oil, Gas, & Geothermal
 19 Resources [DOGGR] 2015).

20 California’s demand for oil and gas exceeds production within the State. In 2013, California
 21 consumed 628.7 MMBO, while 199.6 MMBO were produced within the State that year (DOGGR
 22 2015). Similarly, California consumed 2,345 billion cubic feet of natural gas and the State
 23 produced only 199.2 billion cubic feet (approximately 8 percent of the amount consumed). In 2014,
 24 California consumed approximately 343,588 thousand barrels of motor gasoline for transportation,
 25 approximately 10.5 percent of the total annual consumption of motor gasoline in the U.S. Almost
 26 90 percent of all gasoline consumption in the State of California in 2014 resulted from just light-
 27 duty or personal vehicles alone (U.S. Energy Information Administration [USEIA] 2015).

1 To combat increasing petroleum and motor gasoline consumption, Federal and State agencies have
2 established policies and programs which encourage the development and use of renewable and
3 alternative fuels and technologies to reduce California's dependence on petroleum-based fuels
4 (CEC 2016d). Despite high motor gasoline demand, transportation energy demand forecasts
5 predict motor gasoline fuel consumption reductions up to 3.7 percent per year over the next decade
6 due to improving fuel economy and increasing alternative fuel technologies (CEC 2016d).

7 Renewable Resources

8 California has a long history of support for the development and use of renewable energy sources.
9 California leads the U.S. in geothermal, biomass, solar photovoltaic (PV), and solar thermal
10 electric generation capacity, and is second in wind and hydropower generation capacity (American
11 Council on Renewable Energy [ACORE] 2014). In 2014, approximately 22 percent of all
12 electricity produced in California was produced from renewable resources within California,
13 including wind, solar, geothermal, biomass, and small hydroelectric facilities; large hydroelectric
14 plants generated another 6 percent of electricity generated in California (CEC 2015c). However,
15 the renewable energy sector is changing rapidly due to state mandates to further increase reliance
16 on renewable energy.

17 As of October 31, 2015, the operating capacity of renewable resources within the State was 21.7
18 gigawatts (GW), which includes 3.7 GW of self-generation capacity (CEC 2015a). In addition,
19 there are 12.93 GW of new renewable capacity proposed that have environmental permits and are
20 in preconstruction or construction stages. Proposed solar PV projects account for more than 90
21 percent of the new renewable energy capacity expected to come online from July 2015 through
22 December 2016 (CEC 2016d). California has the largest market for solar PV projects in the U.S.
23 In 2013, California was responsible for 57 percent of the nation's capacity additions, with the
24 installation of 2.6 GW of grid-connected solar PV (ACORE 2014). The California Solar Initiative
25 had a goal of installing 3 GW of solar energy systems on homes and businesses by the end of 2016,
26 and California achieved this goal approximately 1.5 years ahead of target (CEC 2016d).

27 In 2014, SCE delivered approximately 17,700 GWh of renewable energy to the residents and
28 businesses of southern and central California. In addition to providing cleaner, renewable energy,
29 SCE offers incentives and programs, such as their Rooftop Solar Program, to Southern California
30 businesses and households to encourage the implementation of solar stations on rooftops. Since the
31 California Solar Initiative began in 2007, SCE has paid \$800 million-plus in rebates to more than
32 65,000 solar customers.

1 **3.14.14 Regulatory Framework - Energy Resources**

2 Federal Regulations

3 *Federal Energy Regulatory Commission*

4 The Federal Energy Regulatory Commission (FERC) was created through the Department of
5 Energy Organization Act, and FERC assumed the responsibilities of its predecessor, the Federal
6 Power Commission. FERC's legal authority comes from the Federal Power Act of 1935, the
7 Natural Gas Act of 1938, and Natural Gas Policy Act of 1992. It is an independent regulatory
8 agency within the Department of Energy that:

- 9 • Regulates the transmission and sale of natural gas for resale in interstate commerce;
- 10 • Regulates the transmission of oil by pipeline in interstate commerce;
- 11 • Regulates the transmission and wholesale of electricity in interstate commerce;
- 12 • Licenses and inspects private, municipal, and state hydroelectric projects;
- 13 • Oversees environmental matters related to natural gas, oil, electricity, and hydroelectric
14 projects;
- 15 • Administers accounting and financial reporting regulations for conduct of jurisdictional
16 companies; and,
- 17 • Approves site selections for and abandonment of interstate pipeline facilities.

18 *Energy Policy Act of 2005*

19 The Energy Policy Act of 2005 seeks to reduce reliance on non-renewable energy resources and
20 provide incentives to reduce current demand on these resources. For example, under the Act,
21 consumers and businesses can obtain Federal tax credits for purchasing fuel efficient appliances
22 and products, including buying hybrid vehicles, building energy-efficient buildings, and
23 improving the energy efficiency of commercial buildings. Additionally, tax credits are available
24 for the installation of qualified fuel cells, stationary microturbine power plants, and solar power
25 equipment.

26 State Regulations

27 *California Public Utility Commission*

28 The CPUC regulates privately owned electric, telecommunications, natural gas, water, and
29 transportation companies, in addition to household goods movers and rail safety. The CPUC's
30 Energy Division works in setting electric rates, protecting consumers, and promoting energy
31 efficiency, electric system reliability, and utility financial integrity. The CPUC regulates natural

1 gas local distribution facilities and services, natural gas procurement, intrastate pipelines, and
2 intrastate production and gathering. CPUC also works to provide opportunities for competition
3 when in the interest of consumers, takes the lead in environmental review of natural gas-related
4 projects, recognizes the growing interaction of electric and gas markets, and monitors gas energy
5 efficiency and other public purpose programs.

6 *California Code of Regulations Title 24, Part 6 (California Energy Code)*

7 California Code of Regulations Title 24, Part 6 comprises the California Energy Code, which was
8 first established in 1978 in response to a legislative mandate to reduce California's energy
9 consumption. The standards are updated periodically to increase the baseline energy efficiency
10 requirements. Although it was not originally intended to reduce greenhouse gas (GHG) emissions,
11 electricity production by fossil fuels results in GHG emissions and energy efficient buildings require
12 less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

13 *California Code of Regulations Title 24, Part 11 (California Green Building Standards Code*
14 *[CALGreen])*

15 CALGreen, which took effect in January 2011, requires that new buildings reduce water
16 consumption, increase building system efficiencies, divert construction waste from landfills, and
17 install low pollutant-emitting finish materials. CALGreen has approximately 52 nonresidential
18 mandatory measures and an additional 130 provisions that have been placed in the appendix for
19 optional use. Some key mandatory measures for commercial occupancies include specified
20 parking for clean air vehicles, a 20 percent reduction of potable water use within buildings, a 50
21 percent construction waste diversion from landfills, use of building finish materials that emit low
22 levels of volatile organic compounds, and commissioning for new, nonresidential buildings over
23 10,000 square feet.

24 *California Code of Regulations Title 20, Section 1604*

25 Establishes efficiency standards that give the maximum flow rate for all new showerheads and
26 lavatory and sink faucets, as specified in the standard approved by the American National
27 Standards Institute (ANSI), ANSI A11.18.1M-1979.

28 *State of California Integrated Energy Policy*

29 In 2002, the State Legislature passed SB 1389, which required the CEC to develop an integrated
30 energy plan every two years for electricity, natural gas, and transportation fuels, for the California
31 Energy Policy Report. The plan calls for the State to assist in the transformation of the
32 transportation system to improve air quality, reduce congestion, and increase the efficient use of

1 fuel supplies with the least environmental and energy costs. To further this policy, the plan
2 identifies several strategies, including assistance to public agencies and fleet operators in
3 implementing incentive programs for Zero Emission Vehicles and their infrastructure needs, and
4 encouragement of urban designs that reduce vehicles miles traveled and accommodate pedestrian
5 and bicycle access.

6 The CEC adopted the 2013 Integrated Energy Policy Report on February 20, 2014. The 2013
7 Integrated Energy Policy Report provides the results of the CEC’s assessment of a variety of issues,
8 including:

- 9 • Ensuring that the State has sufficient, reliable, and sage energy infrastructure to meet
10 current and future energy demands;
- 11 • Monitoring publicly-owned utilities’ progress towards achieving 10-year energy efficiency
12 targets; defining and including zero-net-energy goals in state building standards;
- 13 • Overcoming challenges to increased use of geothermal heat pump/ground loop
14 technologies and procurement of biomethane;
- 15 • Using demand response to meet California’s energy needs and integrate renewable
16 technologies;
- 17 • Removing barriers to bioenergy development; planning for California’s electricity
18 infrastructure needs given potential retirement of power plants and the closure of the San
19 Onofre Nuclear Generating Station;
- 20 • Estimating new generation costs for utility-scale renewable and fossil-fueled generation;
- 21 • Planning for new or upgraded transmission infrastructure;
- 22 • Monitoring utilities’ progress in implementing past recommendations related to nuclear
23 power plants;
- 24 • Tracking natural gas market trends;
- 25 • Implementing the Alternative and Renewable Fuel and Vehicle Technology Program; and,
- 26 • Addressing the vulnerability of California’s energy supply and demand infrastructure to
27 the effects of climate change; and planning for potential electricity system needs in 2030.

28 Local Regulations

29 *PLAN Hermosa*

30 The City recently adopted the integrated General Plan and LCP (collectively referred to as PLAN
31 Hermosa) on August 22, 2017. This updated document contains goals and policies in the
32 Sustainability and Conservation Element related to utilities that apply to the proposed Project.
33 These policies include (but are not limited to):

1 **Goal 4.** A leader in reducing energy consumption and renewable energy production.

2 **Policy 4.1 Renewable energy generation.** Support or facilitate the installation of
3 renewable energy projects on homes and businesses.

4 **Policy 4.5 Sustainable building standards.** Use sustainable building checklists to
5 minimize or eliminate waste and maximize recycling in building design, demolition, and
6 construction activities.

7 *Hermosa Beach Municipal Code*

8 Section 15.48.020 of the City's Municipal Code modifies the California Energy Code, requiring
9 new residential and nonresidential buildings to be 15 percent more energy efficient than California
10 Energy Code requirements. The section also includes requirements for cool roofs or roofs with
11 high levels of solar reflectance, energy-efficient appliances, and energy-efficient heating,
12 ventilation, and air conditioning systems.

13 *Hermosa Beach Sustainability Plan*

14 Adopted by City Council in 2011, the City's Sustainability Plan was designed to shape the City in
15 a manner that supports and promotes the goal of establishing the City as a leader in sustainability.
16 Section 5 of the Sustainability Plan focuses on building design and energy reduction measures and
17 projects to reduce municipal energy use and encourage the implementation of renewable energy
18 project at the residential and commercial level.

19 *Energy Efficiency Climate Action Plan*

20 The City, in concert with the South Bay Cities Council of Governments (SBCCOG), prepared an
21 Energy Efficiency Climate Action Plan (EECAP) in December 2015. The City's EECAP details
22 the community and municipal energy and emissions inventory, as well as outlines existing and
23 proposed policies designed to ensure the City continues to strive for a more sustainable, energy
24 efficient, and livable environment. Strategies developed in the EECAP include community and
25 municipal oriented goals designed to increase city-wide energy efficiency. Those energy efficiency
26 goals which would apply to the Project include:

- 27 • Community Energy Efficiency Strategies
 - 28 ○ Goal 4: Increase energy efficiency in new commercial development.
 - 29 ▪ Measure 4.1: Encourage or require energy efficiency standards exceeding Title 24.
 - 30 ○ Goal 5: Increase energy efficiency through water efficiency.

- 1 ▪ Measure 5.1: Promote or require water efficiency through SBX7-7.
- 2 ▪ Measure 5.2: Promote water efficiency standards exceeding SBX7-7.
- 3 ○ Goal 6: Decrease energy demand through reducing urban heat island effect.
- 4 ▪ Measure 6.1: Promote tree planting for shading and energy efficiency.
- 5 ▪ Measure 6.2: Incentivize or require light-reflecting surfaces.

6 **3.14.15 Impact Assessment and Methodology - Energy Resources**

7 Thresholds for Determining Significance

8 The significance criteria for this analysis are based on Appendix G of the 2018 CEQA Guidelines.
9 For the purpose of this EIR, implementation of the proposed Project would result in a significant
10 impact associated with energy conservation and resources if it would:

- 11 a) Use large amounts of fuel or energy in an unnecessary, wasteful, or inefficient manner;
- 12 b) Constrain local or regional energy supplies, affect peak and base periods of electrical
13 demand, require or result in the construction of new electrical generation and/or
14 transmission facilities, or necessitate the expansion of existing facilities, the construction
15 of which could cause significant environmental effects; or
- 16 c) Conflict with existing energy standards, including standards for energy conservation.

17 Methodology

18 Potential impacts of the proposed Project were evaluated by reviewing the characteristics of the
19 proposed mixed-use hotel to assess their potential to affect the capacities of energy service utilities.
20 Projected utility demands for the proposed Project were compared with the current capacity
21 available for allocation within the City. Potential impacts resulting from the proposed Project were
22 compared with criteria from CEQA Guidelines Appendix G and the City’s General Plan EIR to
23 assess their significance.

24 This section utilizes data from the CEC. Based on this information, this section assesses the
25 availability and level of energy services, any planned improvements to or changes in these utilities
26 and projected increases in energy demand associated with future residential and commercial
27 development from the proposed Project.

28 Electricity and natural gas demand was estimated using State average energy consumption factors
29 by land use as documented in the CEC’s California Commercial End-use Survey (CEC 2006). The
30 proposed Project would cause a significant impact on energy resources if energy consumption
31 exceeds the projected supply or delivery capacity of either the electric or natural gas systems of

1 the City, or if the proposed mixed-use hotel does not take steps to reduce energy consumption
2 using efficient electrical and mechanical systems.

3 **3.14.16 Project Impacts and Mitigation Measures - Energy Resources**

4 Impact Description

5 *Would the project use large amounts of fuel or energy in an unnecessary, wasteful, or inefficient*
6 *manner; constrain local or regional energy supplies, affect peak and base periods of electrical*
7 *demand, require or result in the construction of new electrical generation and/or transmission*
8 *facilities, or necessitate the expansion of existing facilities; or conflict with existing energy*
9 *standards, including standards for energy conservation?*

10 **UT-4 The proposed Project would not constrain local or regional energy supplies**
11 **and would not require the expansion or construction of new electrical**
12 **generation and/or transmission facilities. The proposed Project would comply**
13 **with all existing energy standards and impacts would be *less than significant*.**

14 Existing uses on the Project site require the use of natural gas and/or electricity utilities; however,
15 not at the scale that would be required for the proposed mixed-use hotel. Existing uses on the
16 Project site have a natural gas demand of approximately 58,710.8 therms per year; the proposed
17 Project is anticipated to have a natural gas demand of approximately 84,291.3 therms per year (see
18 Table 3.14-14). Consequently, the development of the proposed hotel would constitute an increase
19 in the demand for natural gas from the Project site. Natural gas service for the Project site is
20 currently provided by underground 3-inch natural gas lines located within the right-of-way of 13th
21 Court and Beach Drive. The Applicant would be required to submit a formal application to
22 SoCalGas for commercial gas facilities at least 10 to 12 weeks before the gas line and meter would
23 be installed. At this time, a SoCalGas planning representative would plan the installation project
24 and a determination would be made regarding the available energy services. If it is determined that
25 the current natural services in the area are not adequate to support the proposed Project, the
26 Applicant would be required to pay a fee to cover the cost of the additional natural gas services
27 required (SoCal Gas 2010).

1 **Table 3.14-14. Natural Gas Demand Under the Proposed Project**

Land Use	Area/Quantity	Consumption Factor ²	Estimated Electricity Use ²
Existing Conditions			
Residential	8 units	492.6 therms/unit/yr	3,940.8 therms/yr
Restaurants	25,408 sf	2.10 therms/sf/yr	53,356.8 therms/yr
Retail	2,856 sf	0.05 therms/sf/yr	1,413.2 therms/yr
Total			58,710.8 therms/yr
Proposed			
Hotels	136,980 sf	0.42 therms/sf/yr	57,531.6 therms/yr
Restaurant	12,644 sf	10.6 therms/sf/yr	26,552.4 therms/yr
Retail	5,406 sf	0.35 therms/sf/yr	1,892.1 therms/yr
Total			84,291.3 therms/yr

2 Electrical service for the Project site is currently provided by an existing underground utility line
 3 located within the rights-of-way along 13th Court and Beach Drive. Existing uses on the Project
 4 site have an estimated electricity demand of approximately 1,294,413 kilowatt hours per year; the
 5 proposed Project is anticipated to have an estimated electricity demand of approximately
 6 2,337,534 kilowatt hours per year (refer to Table 3.14-15).

7 **Table 3.14-15. Electricity Demand Under the Proposed Project**

Land Use	Area/Quantity	Consumption Factor ²	Estimated Electricity Use ²
Existing Conditions			
Residential	8 units	6,081 kWh/unit/yr	48,648 kWh/yr
Restaurants	25,408 sf	47.45 kWh/sf/yr	1,205,609.6 kWh/yr
Retail ¹	2,856 sf	14.06 kWh/sf/yr	40,155.4 kWh/yr
Total			1,294,413.0 kWh/yr
Proposed			
Hotels	136,980 sf	12.13 kWh/sf/yr	1,661,567.4 kWh/yr
Restaurants	12,644 sf	47.45 kWh/sf/yr	599,957.8 kWh/yr
Retail ¹	5,406 sf	14.06 kWh/sf/yr	76,008.4 kWh/yr
Total			2,337,533.6 kWh/yr

8 It should also be noted that the estimated energy demand is highly conservative as the demand
 9 factors do not account for the most current energy efficiency standards of the Title 24 of the
 10 California Code of Regulations (CALGreen). SCE has adequate supplies to meet the needs of the

1 proposed Project, however, the Applicant would be required to engage the SCE planning
2 department and submit a request for a meter spot.

3 Additionally, conformance of the proposed Project with City policies would reduce impacts
4 associated with increased demand for electricity by implementing energy efficient standards.
5 These standards would help reduce the amount of energy required for lighting, water heating, and
6 heating and air conditioning in the buildings. They would also reduce the energy impact of the
7 building envelope through use of efficient building materials, such as windows, doors, skylights,
8 wall/floor/ceiling assemblies, attics, and roofs. The proposed Project would also implement
9 strategies to promote additional energy conservation. Installation of the solar PV system would
10 reduce the Project's energy demand on local energy providers. The solar cells would overlie the
11 HVAC and mechanical equipment on the roof of the proposed mixed-use hotel and would provide
12 for approximately 25 percent of the Project's electrical power requirements. The combination of
13 the proposed Project's reduced natural gas demand compared to existing development and energy-
14 saving and energy-generating features ensure that the proposed mixed-use hotel would not use
15 energy in a wasteful or inefficient manner.

16 The incorporation of standard regulatory requirements established by local and regional
17 regulations on energy standards would ensure that the Project is consistent with the City's energy
18 use goals. Therefore, the proposed Project would not constrain local or regional energy supplies,
19 would not require the expansion or construction of new electrical generation and/or transmission
20 facilities, and would not use large amounts of fuel or energy in an unnecessary, wasteful, or
21 inefficient manner. The proposed Project would comply with all existing energy standards and
22 impacts would be *less than significant*.

23 Cumulative Impacts

24 The proposed Project's contribution to cumulative impacts on local and regional energy supplies
25 would be incremental in comparison to existing and future planned supplies of natural gas and
26 electricity providers. Potential future development in the Downtown Core, including offices and a
27 hotel on Hermosa Avenue, would incrementally contribute to the need for regional energy
28 production and distribution facilities. As discussed above, these facilities are operated and
29 maintained by private utility companies that plan for anticipated growth. Electric and natural gas
30 services are provided upon demand from consumers and expanded as needed to meet demand,
31 consistent with applicable local, state, and federal regulations. Compliance of the proposed Project
32 and future development projects with standard regulatory requirements that promote energy
33 efficiency and reducing reliance on non-renewable sources of energy, such as CALGreen, the
34 City's EECAP and Sustainability Plan, would also assist in ensuring that natural gas and electricity

1 service providers have adequate supplies to serve commercial and residential customers on a
2 cumulative basis. Further, the City is pursuing energy conservation through policies and standards
3 that encourage the use of renewable energy technologies (e.g., solar, solid waste conversion, etc.).
4 Therefore, the proposed Project would not substantially contribute to cumulatively considerable
5 impacts on energy resources.

4.0 OTHER CEQA CONSIDERATIONS

This chapter presents the evaluation of additional environmental impacts analyses required by California Environmental Quality Act (CEQA) that are not covered within the other chapters of this Environmental Impact Report (EIR), including significant unavoidable environmental effects of the project, irreversible environmental changes, growth inducing impacts (including removal of obstacles to growth), and resource areas that are found not to be significant. In particular, CEQA Section 15126 requires that all aspects of a project must be considered when evaluating its impact on the environment, including planning, acquisition, development, and operation. Accordingly, in addition to the analysis provided in Chapter 3.0, *Environmental Impact Analysis and Mitigation Measures*, this chapter of the EIR identifies growth inducing impacts and significant irreversible environmental changes that could potentially result from implementation of the proposed Strand and Pier Mixed-Use Hotel Project (Project).

4.1 UNAVOIDABLE SIGNIFICANT ENVIRONMENTAL EFFECTS

CEQA Section 15126.2(b) requires that an EIR describe any significant impacts that cannot be avoided, even with implementation of feasible mitigation measures. Where there are significant impacts, their implications and the reasons why the project is being proposed, notwithstanding their effect, should be described.

Based on the analysis presented in this EIR, implementation of the proposed Project would create significant and unavoidable construction-related impacts to noise as well as operational impacts to transportation and traffic. Please refer to the Impact NOI-1 discussion in Section 3.10, *Noise* as well as the Impact TT-1, TT-2, and TT-3 discussions in Section 3.13, *Transportation and Traffic* for the full analysis.

Noise

All phases of construction associated with the proposed Project would involve the use of heavy construction equipment (e.g., cranes, bulldozers, excavators, etc.). Construction activities would produce increased noise levels that would impact surrounding noise-sensitive receptors. Maximum noise levels could reach as high as 90 A-weighted decibels (dBA) at the exterior of surrounding commercial uses (e.g., the Beach House Hotel adjacent to the north, with the highest noise levels being experienced by guests on balconies or otherwise located outside of the hotel). Recreational uses are mobile and transitory along the City's expansive waterfront; however, the Project location in the City's Downtown Core makes it likely that both City residents and visitors would inevitably be exposed to brief episodes of high noise levels. In particular, it is likely that users of The Strand, Pier Plaza, volleyball players using the beach volleyball courts on the north side of Hermosa Pier,

1 and other beach goers that frequent this area would experience periodic *significant and*
2 *unavoidable* noise impacts during the 24- to 30-month construction period.

3 Off-site construction noise impacts related to the Applicant’s proposed late evening concrete pours
4 would potentially disturb surrounding noise sensitive receptors along the concrete truck route (e.g.,
5 residents along the narrow two-lane Gould Avenue). Residents have a higher sensitivity to
6 disturbances and changes in ambient noise levels during the typical sleeping hours. Because
7 construction noise would exceed established noise thresholds, and increased noise would occur
8 over a prolonged period during the construction phase, increased noise levels during construction
9 would be considered a *significant and unavoidable* impact to neighboring uses.

10 Construction of the proposed Project would also generate groundborne vibration from the use of
11 heavy machinery and equipment, particularly during the 6-month excavation of the two-level
12 subterranean basement. Demolition, excavation, and foundation insertion, expected to take place
13 during the first 14 months of the construction, would result in *significant and unavoidable*
14 vibration impacts at the adjacent Beach House Hotel. Additionally, vibration caused by heavy haul
15 trucks and concrete trucks traveling along the truck route would affect off-site sensitive receptors
16 and would also result in *significant and unavoidable* impacts.

17 Transportation and Traffic

18 The proposed Project would have temporary, but prolonged, *significant and unavoidable*
19 construction-related impacts as well as long-term operational *significant and unavoidable* impacts
20 to transportation and traffic. Construction of the proposed Project would require substantial
21 numbers of heavy haul trucks traveling to and from the Project site – particularly during the first
22 19 months of construction activity – and would result in road and sidewalk closures, transit delays,
23 and interference with traffic flow and pedestrian and bicycle activity. Project construction would
24 require the temporary or extended closure of all or parts of traffic lanes and sidewalks on
25 surrounding streets (i.e., 13th Street, 13th Court, The Strand, and Pier Plaza) to accommodate utility
26 trenching and installation of other Project-related improvements (e.g., 13th Court Plaza). Certain
27 day-to-day construction activities could also result in partial lane closures on Hermosa Avenue
28 adjacent to the Project site on a temporary and/or intermittent basis for utility relocations/hook-
29 ups, delivery of materials, and other miscellaneous construction activities, as necessary. The
30 implementation of MM TT-1 would require City approval and Applicant implementation of a Final
31 Construction Management Plan, including construction traffic routing and control, parking
32 management, street closures, pedestrian/bicycle access, and vehicular and pedestrian safety to
33 minimize the effects of construction. Implementation of MM TT-1 would minimize impacts
34 related to construction traffic that would occur over the 24- to 30-month construction period.

1 However, implementation of this mitigation measure would not eliminate impacts entirely,
2 particularly the impacts to residential areas along Gould Avenue and the commercial and
3 residential areas along Hermosa Avenue in the immediate vicinity of the Project site. The
4 temporary, but prolonged impacts in these locations would remain *significant and unavoidable* as
5 construction-related activities could materially interfere with area traffic flow (e.g., vehicles
6 turning on 13th Street, exiting City-owned Parking Lot C [Lot C], or pulling out of driveways or
7 parking spaces along Gould Avenue) and interfere with pedestrian and bicycle flows (e.g., along
8 The Strand and Pier Plaza).

9 Even though the proposed Project is a mixed-use development located in Downtown, and geared
10 toward pedestrian and bicycle access, it would measurably increase the number of vehicle trips on
11 the surrounding local street network, particularly along main access routes into the Downtown
12 (e.g., Artesia Boulevard, Pier Avenue, etc.). The Hermosa Avenue & Pier Avenue intersection
13 operates at Level of Service (LOS) D under Existing (2016) and Future Year (2021) conditions
14 during the Sunday Mid-Afternoon peak hour. The addition of 56 Project-generated trips at this
15 intersection during the Sunday Mid-Afternoon peak hour would incrementally increase congestion
16 (i.e., an approximately 4-percent increase from 1,753 vehicle trips to 1,809 vehicle trips).
17 However, due to the configuration and location of this intersection adjacent to Pier Plaza and the
18 existing pedestrian scramble phase, even an incremental increase in traffic at this intersection
19 would exceed delay thresholds for a signalized intersection operating at LOS D. During the Sunday
20 Mid-Afternoon peak hour, the addition of vehicle trips associated with the proposed Project would
21 increase the volume-to-capacity (V/C) ratio by 0.022 at the Hermosa Avenue & Pier Avenue
22 intersection resulting in additional delay and a *significant and unavoidable* traffic impact under
23 projected Existing Plus Project (2016) conditions. In addition, the proposed Project would
24 contribute to a cumulatively considerable impact at this intersection during the Sunday Mid-
25 Afternoon peak hour under Future Year Plus Project (2021) conditions.

26 The reasons why the Project is being proposed, notwithstanding the significant impacts, are related
27 to the Project objectives stated in Section 2.3, *Project Objectives*. As indicated, the proposed
28 Project is being proposed to achieve the City's goals and policies for Downtown Core, to enhance
29 the Downtown as family-friendly, pedestrian-oriented area for dining, shopping, entrainment, and
30 recreation and to fulfill the Downtown Core Revitalization Strategy, which identified the Project
31 site as a prime location for a mixed-use hotel development.

32 **4.2 IRREVERSIBLE ENVIRONMENTAL CHANGES**

33 CEQA Section 15126.2(c) requires a discussion of “*significant irreversible environmental*
34 *changes which would be caused by the proposed project should it be implemented. Uses of*