



BRIEFING BOOK



Marine Corps Recruit Depot

Base Overview

Marine Corps Recruit Depot (MCRD) is located in the City of San Diego in between I-5 and the San Diego Bay and adjacent to the San Diego International Airport (**Figure 1**). MCRD opened in 1921 and continues to serve as the Marine Corps' recruit training center. MCRD is home to the Drill Instructor School, which teaches selected noncommissioned and staff noncommissioned officers (NCOs) to successfully perform the duties of a Drill Instructor; and Recruiters School, which teaches NCOs and staff NCOs how to find recruits. While the facility is within a mile of multiple Green Line Trolley or MTS bus stops, the bicycle and pedestrian connections to the facility are inconsistent and unfriendly environments.

Existing Connectivity

Freeway / Roadway Network

I-5 is a major north-south corridor and I-8 is a major eastwest corridor used to access the base via driving, carpooling, and vanpooling (**Figure 2**). There are several Park & Ride lots along I-5 and I-8 where commuters can meet to carpool, vanpool, or access transit services (**Appendix A**).

I-5 and I-8 do not provide direct access to the base, but

connect with major roads, such as Pacific Highway and Sports Arena Boulevard, that feed into the facility.

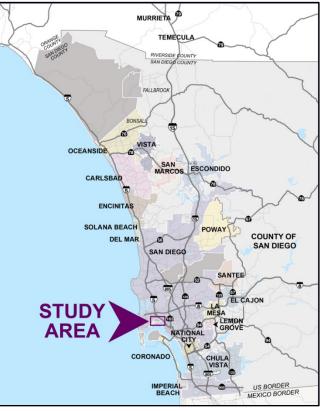
Transit

The Old Town Transit Center (OTTC) is located less than two miles north of MCRD in Old Town San Diego. The OTTC serves the Amtrak, NCTD COASTER commuter rail, MTS Green Line Trolley, and several MTS bus routes. The Green Line Trolley additionally stops at the Washington Street Trolley Station, which is less than a mile away from MCRD.

The OTTC has been identified as a mobility hub prototype site for the region (**Appendix B**). The Mid-Coast Trolley, once completed, will extend the Blue Line Trolley from Downtown San Diego to University Town Center (UTC) with a stop at OTTC among other stops. This will connect communities from the U.S.-Mexico border at San Ysidro to UTC.

There are no transit services that enter MCRD. MTS Routes 10, 30, and 150 provide access to MCRD via nearby roads. MTS Routes 30 and 150 have stops near the intersection of Pacific Highway and Barnett Avenue, and MTS Route 10 has a stop near W Washington Street and Pacific Highway. These routes connect areas of the City of San Diego to the base. These routes also have stops at the OTTC where people can transfer to other buses, the Green Line Trolley, COASTER, or Amtrak.

Figure 1. Marine Corps Recruit Depot location in the region







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Figure 2. Marine Corps Recruit Depot existing connectivity

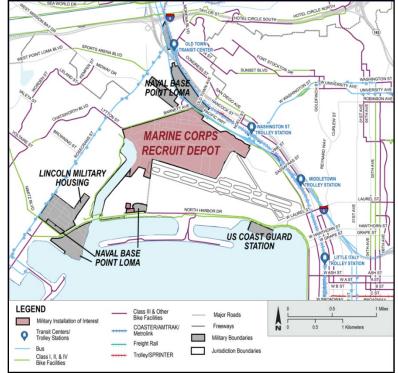


Active Transportation

There are a mix of Class II and III bike facilities along Barnett Avenue and Pacific Highway, the major roads that access MCRD. However, these bike facilities are inconsistent. The eastbound Class II bike lane along Barnett Avenue, which has a posted speed limit of 40mph, disappears at the Henderson Ave intersection that provides access to Gate 2, forcing bicyclists into mixflow traffic for several blocks. The majority of bike facilities along the arterial roadways connecting to Pacific Highway are a mix of shared-use paths or routes classified by SANDAG's Bike Map (2018)¹ as unofficial bikeways not recommended for inexperienced riders. In addition, there is no safe or separated bike route for bike riders to access Gate 2 from Tripoli Ave.

Mobility Programs

SANDAG is collaborating with Waze Carpool, the United States Navy, and the U.S. Marine Corps to offer the Military Carpool Incentive



Pilot. Through this pilot, Waze Carpool will offer free rides to new and existing carpoolers (riders only) at each identified military base for a one-month period. Waze Carpool works by connecting users through an app. Based on the user's route and destination, other users will be matched to their carpool route. The intent is to ease congestion to and from the military base and to provide mobility options for service members. SANDAG and Waze plan to outreach through social media, military websites, and presentations to educate service members and raise awareness.

There are currently no bikeshare program partnerships with MCRD, however bikeshare and scootershare programs (such as Lime and Bird) exist in the San Diego communities adjacent to the base.

A mobility report card identifying programs and complementing infrastructure projects that support access to MCRD has been developed (**Appendix C**). Some programs have policy restrictions or contractual agreements to allow services in a military installation or city; those programs are outlined to the respective jurisdictions in the mobility report card.

Military Personnel Commuting Patterns

According to MCRD's most recent zip code report, military personnel commute from a community within the county. Military personnel primarily commute from the City of San Diego (**Table 1**). In order to reduce parking demand, MCRD leadership utilize Transportation Demand Strategies to promote alternative commutes for personnel, especially during graduations, which is when MCRD sees the most amount of people coming to and leaving the facility.





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Recruit Depot

Commute Origin

City of San Diego

Riverside County

Orange County

Total Responses

Los Angeles County

Other*

North San Diego County

South San Diego County

East San Diego County

San Bernardino County

Table 1. Commute origin of Marine Corps



Percent of

Commuters

30%

17%

11%

10%

10%

10%

5%

3%

3%

142

Gate Access

MCRD has three gates that provide access to the base. This report will focus on Gate 4, which is the access point with the most significant street network connections.

Gate 4

Gate 4 of MCRD is located on the northeastern side of MCRD, along Pacific Highway and Tripoli Avenue (**Figure 3**). The gate has two inbound and outbound lanes to provide access for vehicles, pedestrians, and people biking. MTS Route 10 stops near Gate 4.

Upon entering the gate, military personnel and visitors can directly access several parking lots, training facilities, and various types of land uses such as office, residential, and work. When exiting the gate, people enter into the City of San Diego where there are residential and existing / planned smart growth opportunity areas.

Gate 4 experiences minor traffic in the peak morning commute hours along Pacific Highway (see Appendix D). During afternoon peak commute hours, there is heavy traffic leaving the base backing up along Pacific Highway and Barnett Avenue.

Source: MCRD provided zip code report data, March 2018

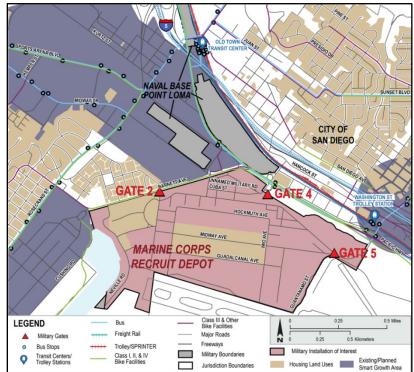
Notes: *Other includes California Counties other than the ones listed, out of state, and international zip codes.

Goods Movement

I-5 and Pacific Highway serve as major freight and goods movement corridors for MCRD and the region. Goods transported to and between MCRD and other bases use these corridors.

Due to the high volume of vehicles, I-5, Pacific Highway, and additional surrounding roads such as Harbor Drive continue to see high levels of traffic congestion. Several nearby intersections operate at a low level of service, especially during peak hours. This congestion not only causes poor access to MCRD, but also impedes trucks trying to access I-5.

Figure 3. Marine Corps Recruit Depot gates vicinity map







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Summary of Challenges for MCRD

Traffic and Regional Connectivity

 Community concerns about traffic resulting from proposed projects (additional rail line at-grade across Washington Street, the Airport Intermodal Transit Center, and the San Diego City Community Plan for the I-5/Pacific Highway)

Mobility

• Bicycle network gaps limit bicycle access to MCRD, particularly along Barnett Avenue

Other

- New infrastructure may require California Coastal Commission and/or City of San Diego support
- Congestion between the Washington Street Gate and I-5 causing delay for commuters.





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Relevant Programs and Projects

Existing Planned Projects & Programs Relevant to Marine Corps Recruit Depot					
Facility	Project Extents	Improvement Type	Subcategory	Project Improvement	Source
Nimitz Bridge	Along Nimitz Bridge	Active	Pedestrian	New ADA ramps, new light poles on the bridge, remove existing chain link gates, rehabilitate guardrails	City of San Diego Capital Improvement Program (CIP GIS Shapefile) (2017)
Harbor Drive	Harbor Dr (Downtown to Ocean Beach)	Active	Bicycle	Bicycle Facilities	SANDAG Regional Plan (2015)
Nimitz Blvd, Mission Bay Dr, Quivira Rd	Ocean Beach to Mission Bay	Active	Bicycle	Bicycle Facilities	SANDAG Regional Plan (2015)
Pacific Highway	Pac Hwy (Laurel St to Santa Fe Depot)	Active	Bicycle	Coastal Rail Trail San Diego	SANDAG Regional Plan (2015)
Pacific Highway	Pac Hwy (W Washington St to Laurel St)	Active	Bicycle	Coastal Rail Trail San Diego	SANDAG Regional Plan (2015)
I-5	I-15 to I-8	Freeway	Lanes	Add Operational Lanes to 8 Freeway Lanes	SANDAG Regional Plan (2015)
Route 510	Mira Mesa to Border	Transit	Trolley	Blue Line Rail Grade Separation	SANDAG Regional Plan (2015)
Route 530	Green Line	Transit	Trolley	Green Line Frequency Enhancements	SANDAG Regional Plan (2015)
Route 398	Oceanside Transit Center to Downtown San Diego	Transit	COASTER	Double tracking (20-minute peak frequencies and 120-minute off- peak frequencies)	SANDAG Regional Plan (2015)
Route 398	Oceanside Transit Center to Downtown San Diego	Transit	COASTER	Double tracking (20-minute off- peak frequencies, grade separations at Leucadia Blvd, stations/platforms at Convention Center/Gaslamp Quarter and Del Mar Fairgrounds, and extension to Camp Pendleton)	SANDAG Regional Plan (2015)





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Existing Planned Projects & Programs Relevant to Marine Corps Recruit Depot					
Facility	Project Extents	Improvement Type	Subcategory	Project Improvement	Source
Route 398	Oceanside Transit Center to Downtown San Diego	Transit	COASTER	COASTER Double tracking (completes double tracking; includes Del Mar Tunnel) plus 2 grade separations)	
Route 510	Palomar St to 12th & Imperial	Transit	Trolley	Phase I - Blue Line Frequency Enhancements and rail grade separations at 28th St, 32nd St, E St, H St Palomar St, and Blue/Orange Track Connection at 12th/Imperial	SANDAG Regional Plan (2015)
Route 28	Point Loma to Kearny Mesa via Old Town, Linda Vista	Transit	Rapid	Connection from Point Loma to Kearny Mesa via Old Town, Linda Vista	SANDAG Regional Plan (2015)
Routes 640A/640B	San Ysidro to Palomar	Transit	Rapid	Route 640A: I-5 - San Ysidro to Old Town Transit Center via City College; 640B: I-5 Iris Trolley/Palomar to Kearny Mesa via Chula Vista, National City and City College	SANDAG Regional Plan (2015)
Route 510	Taylor St & Ash St	Transit	Trolley	Phase II - Blue Line rail grade separations at Tayler St and Ash St	SANDAG Regional Plan (2015)
Route 510	University City to Downtown San Diego	Transit	Trolley	Blue line extension to University City providing public transportation in coastal San Diego County. Increased frequencies and front door access to Naval Base San Diego at 32 nd St	SANDAG Regional Plan (2015)
Route 561	UTC to COASTER Connection	Transit	Trolley UTC COASTER Connection (extension of Route 510)		SANDAG Regional Plan (2015)
Route 540	UTC to San Ysidro via downtown	Transit	Trolley	Blue Line Express – UTC to San Ysidro via downtown	SANDAG Regional Plan (2015)

C= Conventional Highway F= Freeway

ML = Managed Lanes T = Toll Road

R = Reversible Lanes **OPS = Operational Improvements**





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References

¹ http://www.icommutesd.com/Bike/BikeMap.aspx

Appendices

Appendix A. iCommute Park & Ride Map
Appendix B. Old Town Center Mobility Hub Concept
Appendix C. Marine Corps Recruit Depot Mobility Report Card
Appendix D. Google Traffic Maps



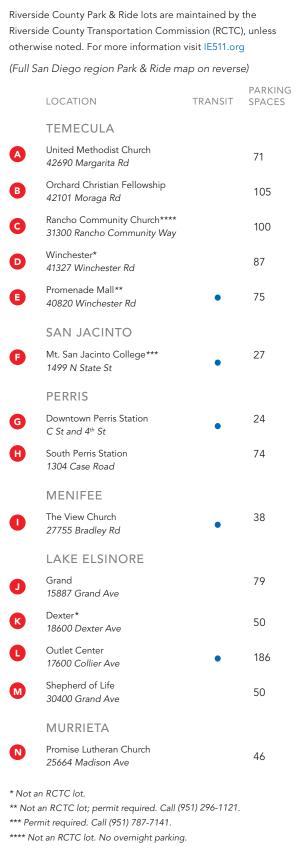


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Appendix A. iCommute Park & Ride Map

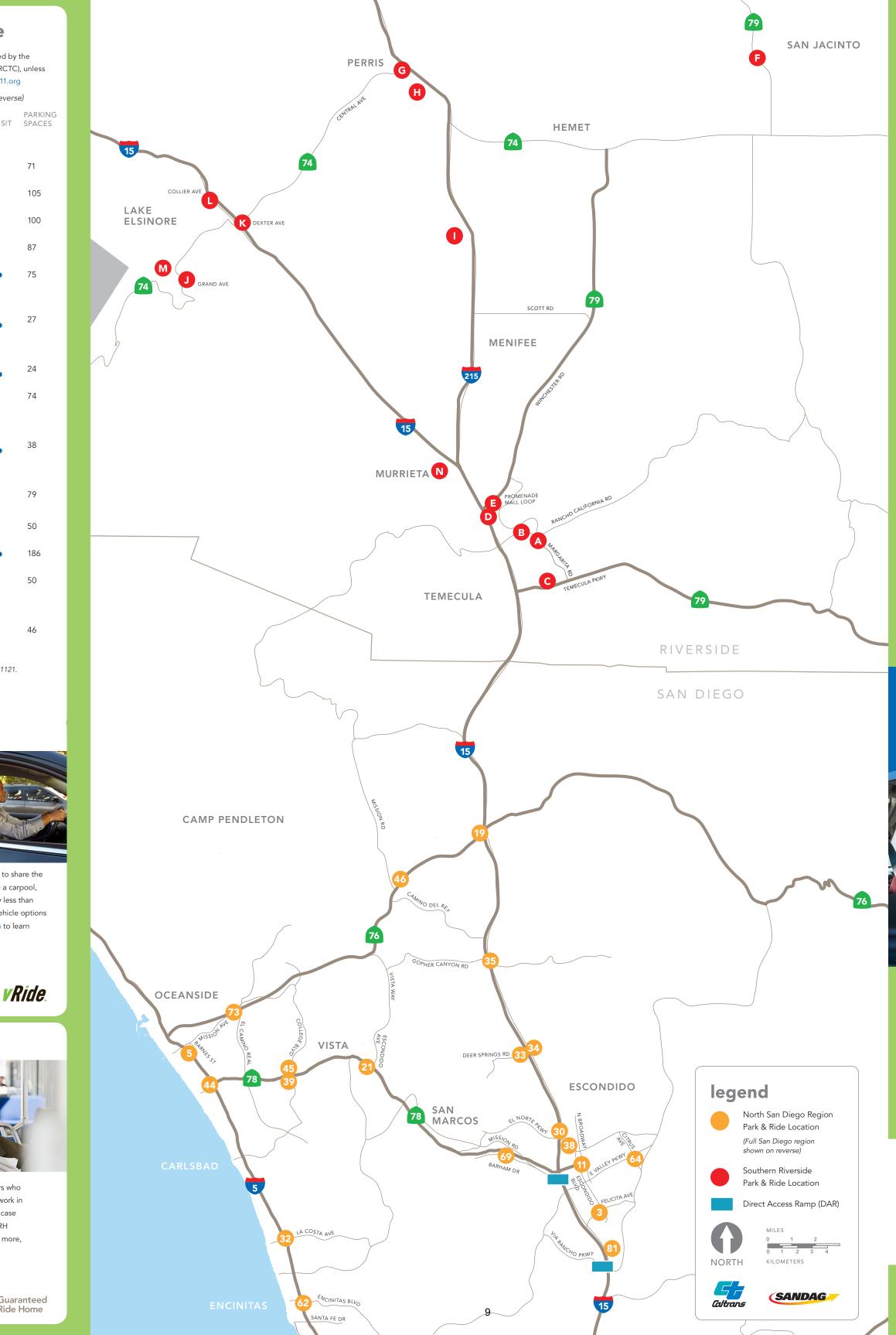
southern riverside



vanpool



A vanpool brings five or more people together to share the costs of getting to work in a van or SUV. It's like a carpool, only bigger! Vanpool participants generally pay less than \$100 per month to get to work, and multiple vehicle options



stop resource. 511 provides current information on: traffic conditions, incidents, and driving times; schedule, route, and fare information for San Diego public transportation services; commuter services; and biking information. The 511 service is available 24 hours a day, seven days a week at 511sd.com, by calling 511, or by downloading the 511 San Diego mobile app, available for iOS and Android. (SANDAG (511 Last modified: May 2016 Commute

providing carpool and ridematching services, a subsidized

for more information.

511

iCommute

partners. This map provides a locator tool for approximately 90 Park & Ride lots in the San Diego region and in southern Riverside County. The map also has information about each lot's features, including the number of parking spaces, bike lockers, and transit connections. Leave your solo commute behind and find an alternative way to get to work and to many other destinations around San Diego County.

More information about Park & Ride lots is available through

the San Diego Association of Governments (SANDAG)

iCommute program. iCommute assists commuters by

vanpool program, transit solutions, the Guaranteed Ride Home program, regional support for biking, and bike

and pedestrian safety program support for schools. Visit 511sd.com/iCommute or call 511 and say "iCommute"

511 is a free phone and web service that consolidates the

San Diego region's transportation information into a one-

Park & Ride lots are free, conveniently located throughout the region, and offer a great place to meet carpool or vanpool

Park & Ride



park and go

are available. Visit RedesignYourCommute.com to learn more.



guaranteed ride home



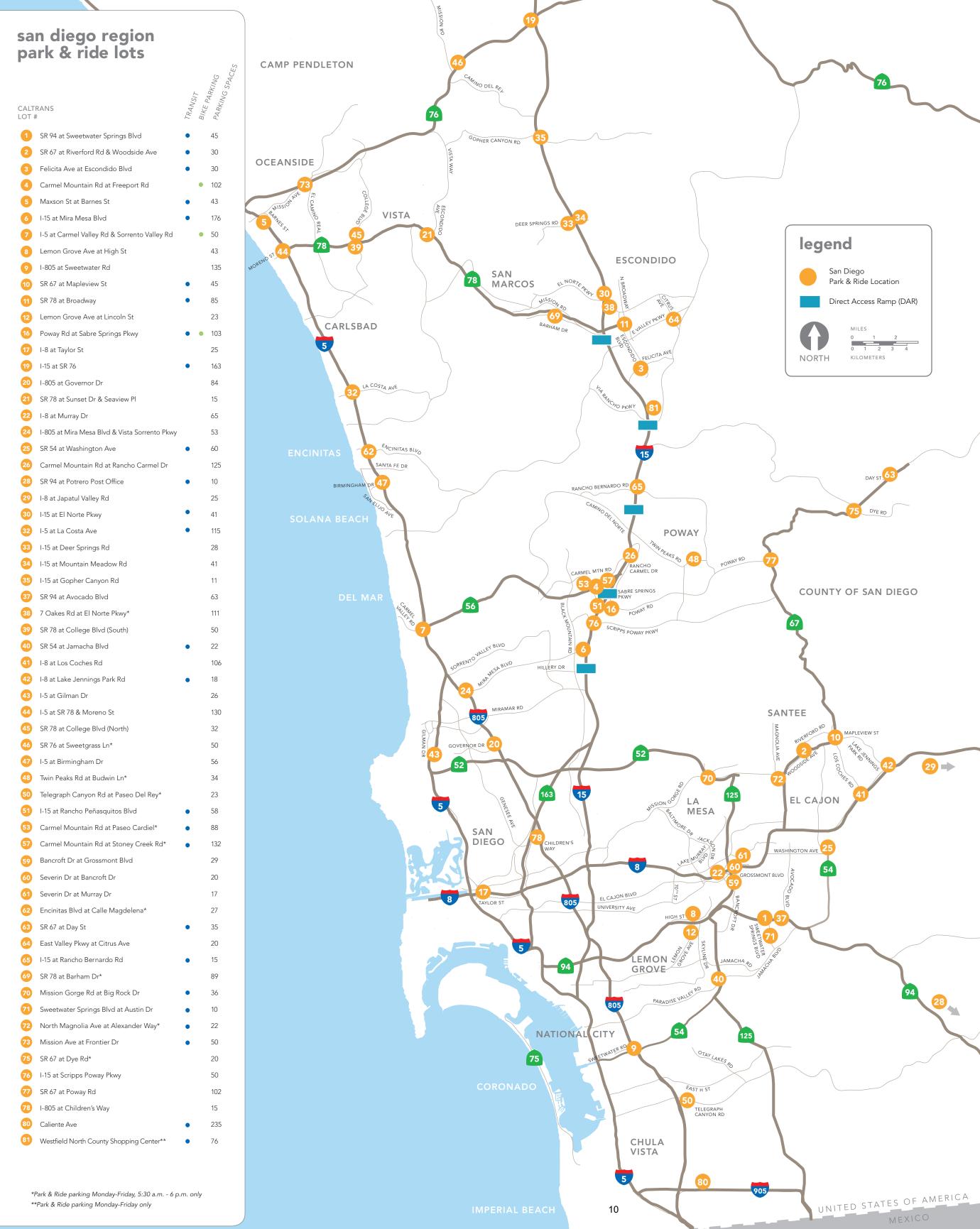
With Guaranteed Ride Home (GRH), commuters who carpool, vanpool, take transit, walk, or bike to work in San Diego County have a built-in safety net. In case of emergency or unscheduled overtime, the GRH program will get you home for free. To find out more, visit 511sd.com/iCommute.



my favorite morning meeting

san diego regional park & ride map







Information on this map is accurate as of May 2016. HPark & Ride lot locations and amenities change periodically. Visit Caltrans at dot.ca.gov/dist11 to find the most up-to-date Park & Ride lot information.

G Caltrans

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Taking public transportation helps you beat traffic, save money on gas, and ease the stress of your daily commute. Park at a transit station or Park & Ride lot and get on board the bus, *Rapid*, Trolley, COASTER, or SPRINTER. Your transit ride is even easier with Compass Card — the smart card for transit passes. Get your Compass Card at Albertsons and select Vons stores in San Diego County or visit 511sd.com/compass for more information.



secure bike parking



GO by $\ensuremath{\mathsf{BIKE}}$ to close the gaps in your commute. Secure bike parking facilities are available throughout the region to make your trip a little easier. They keep your bike safe while you take transit or share a ride to work. To find out which Park & Ride lots have bike parking, check the list on this map. There is no fee to use bike parking facilities — just a small, refundable deposit. To sign up for bike parking or get more information on bike

57	Carmel Mountain Rd at Stoney Creek Rd*	٠	132
59	Bancroft Dr at Grossmont Blvd		29
60	Severin Dr at Bancroft Dr		20
61	Severin Dr at Murray Dr		17
62	Encinitas Blvd at Calle Magdelena*		27
63	SR 67 at Day St	٠	35
64	East Valley Pkwy at Citrus Ave		20
65	I-15 at Rancho Bernardo Rd	٠	15
69	SR 78 at Barham Dr*		89
70	Mission Gorge Rd at Big Rock Dr	٠	36
71	Sweetwater Springs Blvd at Austin Dr	•	10
72	North Magnolia Ave at Alexander Way*	•	22
73	Mission Ave at Frontier Dr	•	50
75	SR 67 at Dye Rd*		20
76	I-15 at Scripps Poway Pkwy		50
77	SR 67 at Poway Rd		102
78	I-805 at Children's Way		15
80	Caliente Ave	•	235
81	Westfield North County Shopping Center**	•	76

commuting, visit 511sd.com/iCommute.



TripPlanner



Find the best way to get where you need to go by comparing multiple transportation choices in one place. Just enter your starting point and destination in TripPlanner and click "Let's Go!" It's that easy. Trip Planner compares carpool, vanpool, transit, walk, and bike options, while calculating time, cost, calories burned, and emissions estimates.







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Appendix B. Old Town Center Mobility Hub Concept

MID-COAST MOBILITY HUB IMPLEMENTATION STRATEGY OLD TOWN TRANSIT CENTER FACT SHEET



What is the Mid-Coast Mobility Hub Implementation Strategy?

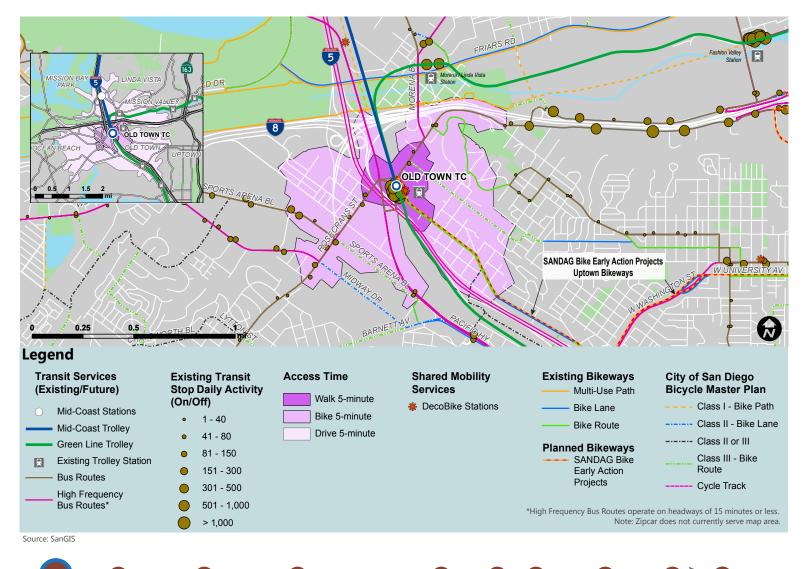
In the Mid-Coast Corridor, mobility hubs could enhance access and connections to the Mid-Coast Trolley, making it easier to use public transit and other travel alternatives. The Mid-Coast Mobility Hub Implementation Strategy will identify services and amenities for each station, which may include improved pedestrian and bike connections, secure bike storage, on-demand ridesharing services, wayfinding, and supporting technologies.

This fact sheet summarizes existing conditions around the Old Town Transit Center to help inform the set of mobility hub elements that may be most suitable. At this station, existing options include regional Trolley and local bus routes, on-demand rideshare services, and bike facilities. There are also a considerable number of recreation, residential, and retail destinations within close proximity to the Old Town Transit Center.

Mobility Facilities

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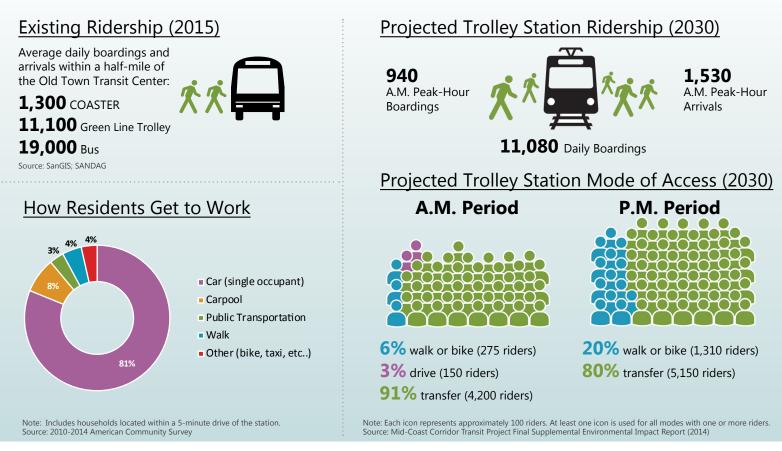
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NOSEL VANEDENTER CANON 2 DEPERCIPTION

JTC

OLD TOWN TRANSIT CENTER FACT SHEET

Ridership Information at the Old Town Transit Center



Population and Employment Information



Source: SanGIS; 2010-2014 American Community Survey; US Census Bureau

For More Information

Visit SDForward.com/MidCoastMobilityHubs or contact Marisa Mangan, Regional Planner, at (619) 595-5614 or marisa.mangan@sandag.org







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Appendix C.

Marine Corps Recruit Depot Mobility Report Card

	Mobility Report Card Marine Corps Recruit Depot					
Mobility Options		Supportive Pro	Related Infrastructure Project Types			
		On Base	City of San Diego			
(Å of o	Walking/Biking	• Walkable	 Intermittent Class II bike lanes along Barnett Ave (40 mph), disappears at Gate 2 Class III bike route along Pacific Hwy 	Active Transportation		
	Public Transit	No public transportation on base	MTS Route 10, 30, & 150 Green Line Trolley station (Washington Street) less than one mile from MCRD Multiple transit services at Old Town Transit Center	Transit Infrastructure		
	Microtransit	No current services	No current services	Local Roads		
	Carpool & Vanpool	 Vanpool subsidy with TIPS SANDAG iCommute Vanpool Program No designated parking spaces for carpool or vanpool 	• No existing High Occupancy Vehicle lanes on I-5 and I-8	Freeway Network		
	Carshare	• No current programs	• Zipcar	Parking		
Ĩ	On-Demand Rideshare	• Waze Carpool	• Waze Carpool, Uber, Lyft	Local Roads		
Î	Bikeshare	No current programs	• Lime, Discover Bike	Active Transportation		
<i>æ</i> .	Electric Bike & Scootershare	No current programs	 Electric bike: Lime, JUMP Electric scooter: Lime, Bird, Razor, Wheels, Wind 	Active Transportation		
	Neighborhood Electric Vehicle (NEV)	No current programs	No current programs	Active Transportation		
?	Other	 Limited parking on base 	 Limited street parking close to base Smart Growth Opportunity Areas: Midway- Pacific Hwy and San Diego Peninsula in Point Loma 	Parking Transit Infrastructure		

Data current as of December 2018





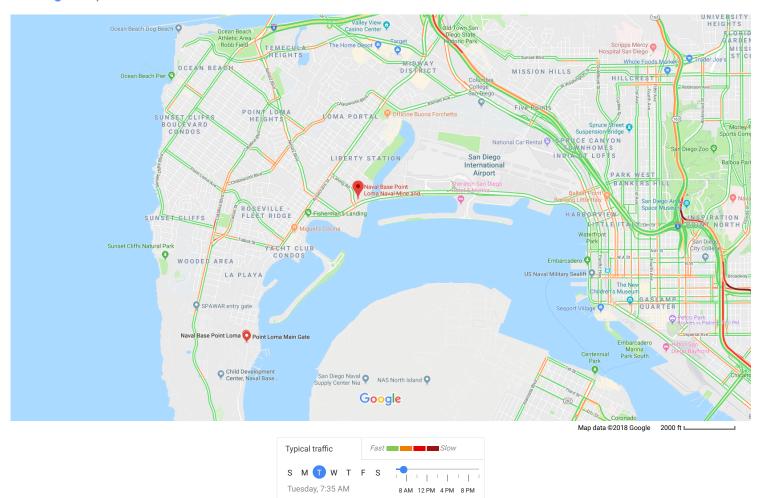
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Appendix D. Google Traffic Maps

8/30/2018

Google Maps



8/30/2018

Google Maps

