



San Diego Regional Military Working Group Agenda

**Monday, September 9, 2024
9 a.m.**

Welcome to SANDAG. The San Diego Regional Military Working Group meeting scheduled for Monday, September 9, 2024, will be held in person in the SANDAG Board Room. While Working Group members will attend in person, members of the public will have the option of participating either in person or virtually.

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Persons who wish to address the members on an item to be considered at this meeting, or on non-agendized issues, may email comments to the Clerk at clerkoftheboard@sandag.org (please reference San Diego Regional Military Working Group meeting in your subject line and identify the item number(s) to which your comments pertain). Comments received by 4 p.m. the business day before the meeting will be provided to members prior to the meeting. All comments received prior to the close of the meeting will be made part of the meeting record.

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Vision Statement: *Pursuing a brighter future for all*

Mission Statement: *We are the regional agency that connects people, places, and innovative ideas by implementing solutions with our unique and diverse communities.*

Our Commitment to Equity: *We hold ourselves accountable to the communities we serve. We acknowledge we have much to learn and much to change; and we firmly uphold equity and inclusion for every person in the San Diego region. This includes historically underserved, systemically marginalized groups impacted by actions and inactions at all levels of our government and society.*

We have an obligation to eliminate disparities and ensure that safe, healthy, accessible, and inclusive opportunities are available to everyone. The SANDAG equity action plan will inform how we plan, prioritize, fund, and build projects and programs; frame how we work with our communities; define how we recruit and develop our employees; guide our efforts to conduct unbiased research and interpret data; and set expectations for companies and stakeholders that work with us.

We are committed to creating a San Diego region where every person who visits, works, and lives can thrive.

San Diego Regional Military Working Group

Monday, September 9, 2024

Comments and Communications

1. Non-Agenda Public Comments/Member Comments

Information

Members of the public shall have the opportunity to address the San Diego Regional Military Working Group (MWG) on any issue within the jurisdiction of the MWG that is not on this agenda. Public speakers are limited to three minutes or less per person. Public comments under this agenda item will be limited to five public speakers. If the number of public comments under this agenda item exceeds five, additional public comments will be taken at the end of the agenda. MWG members and SANDAG staff also may present brief updates and announcements under this agenda item.

Consent

+2. Approval of Meeting Minutes

Approve

Tessa Lero, SANDAG

The MWG is asked to approve the minutes from its May 6, 2024, meeting.

[Meeting Minutes](#)

Reports

3. San Diego Regional Military Working Group Priority Project Inventory

Discussion

Danielle Kochman, Kate McCauley, SANDAG

Building on the previous meetings discussion on the work plan, staff will present a proposed list of MWG Priority Projects. These projects were selected from recent planning studies, including the Military Multimodal Access Strategy, the Military Installation Resilience Framework, and the Regional Plan. This project inventory will provide a framework for selecting projects and developing partnerships to seek grant funding for implementation.

[Supporting Materials](#)

+4. SANDAG Advanced Air Mobility

Information

Kate McCauley, SANDAG

Staff will present the Advanced Air Mobility framework and strategy and an overview of SANDAG's long-range planning study to proactively prepare the San Diego region for the impending technology.

[SANDAG Advanced Air Mobility Strategy](#)

[Att. 1 - SANDAG AAM Collaborative Guiding Principles](#)

[Supporting Materials](#)

5.

Information

Harbor Drive 2.0 and Vesta Street Bridge Update

Andrea Hoff, SANDAG; Christina Ngo, Caltrans

SANDAG and Caltrans staff will present an overview of Harbor Drive 2.0 and Vesta Street Bridge including project status, components, features, and next steps.

[Supporting Materials](#)

6. Adjournment

The next MWG meeting is scheduled for Monday, December 16, 2024, at 9 a.m.

+ next to an agenda item indicates an attachment

* next to an agenda item indicates that the Board of Directors also is acting as the San Diego County Regional Transportation Commission for that item

September 9, 2024

May 6, 2024, Meeting Minutes

[View Meeting Video](#)

Chair Steve Goble (El Cajon) called the meeting of the San Diego Regional Military Working Group (MWG) to order at 9:05 a.m.

1. Public/Comments Communications/Member Comments

Public Comments: The OriginalDra.

Member Comments: Erika Cortez-Martinez (City of Imperial Beach), Tony Winney (City of Coronado), Aimee Heim (Port of San Diego), Jim Gruny (Marine Corps Recruit Depot), and Muska Laiq (Navy Region Southwest).

Consent

2. Approval of Meeting Minutes

The MWG was asked to approve the minutes from its February 12, 2024, meeting, as corrected.

Public Comments: The OriginalDra.

Action: Upon a motion by Tony Winney, and a second by Jim Gruny, the MWG voted to approve the Consent Agenda.

The motion passed.

Yes: Tony Winney, Erika Cortez-Martinez, Don Chase (County of San Diego), Jim Gruny, Beverly Neff (Metropolitan Transit System), Anna Shepherd (Navy Region Southwest), Jose Cervantes (North County Transit District), and Aimee Heim.

No: None.

Abstain: None.

Absent: City of National City, City of Oceanside, City of San Diego, Coast Guard San Diego Sector, and Marine Corps Installation West.

Reports

3. Military Working Group Priorities for Implementation

Senior Regional Planner April DeJesus and Regional Planning Program Manager Susan Freedman presented recommendations from the Military Multimodal Access Strategy and the Military Installation Resilience Studies and asked the members to discuss actions for 2024.

Public Comments: The OriginalDra.

Action: Discussion.

4. Regional Safety Planning Update

Senior Regional Planner Samuel Sanford and Associate Regional Planner Jacqueline Sisk presented an update on regional safety efforts in developing the Regional Vision Zero Action Plan.

Public Comments: The OriginalDra.

Action: Information.

5. Housing Acceleration Program Update

Regional Planner Thomas DeFranco presented an update on the Housing Acceleration Program (HAP) funded through the state's Regional Early Action Planning grants of 2019 (REAP 1.0) and Regional Early Action Planning grants of 2021 (REAP 2.0).

Public Comments: The OriginalDra.

Action: Information.

6. Adjournment

The next MWG meeting is scheduled for Monday, September 9, 2024, at 9 a.m.

Chair Goble adjourned the meeting at 10:47 a.m.

Confirmed Attendance at Military Working Group Meeting

Jurisdiction	Name	Attended
City of Coronado	Tina Friend	No
	Tony Winney, Alternate	Yes
City of Imperial Beach	Erika Cortez-Martinez	Yes
	Tyler Foltz, Alternate	No
City of National City	Martin Reeder	No
	Ben Martinez, Alternate	No
City of Oceanside	Russ Cunningham	No
	Vacant, Alternate	N/A
City of San Diego	Tait Galloway	No
	Seth Litchney, Alternate	No
Coast Guard San Diego Sector	Becca Brooks	No
	Ashlee Wasowski, Alternate	No
County of San Diego	Rich Whipple	No
	Don Chase, Alternate	Yes
Marine Corps Installation West	John Gamelin	No
	Sam Jammal, Alternate	No
Marine Corps Recruit Depot	Jim Gruny	Yes
	Vacant	N/A
Metropolitan Transit System	Beverly Neff	Yes
	Julia Tuer, Alternate	No
Navy Region Southwest	Anna Shepherd	Yes
	Muska Laiq, Alternate	Yes
North County Transit District	Jose Cervantes	Yes
	Mary Balderrama, Alternate	No
Port of San Diego	Commissioner Frank Urtasun	No
	Aimee Heim, Alternate	Yes
NON-VOTING MEMBER		
City of El Cajon	Steve Goble, Chair	Yes
ADVISORY MEMBER		
SDMAC	Mike Woiwode	Yes
	Paul Pearingen, Alternate	Yes



San Diego Regional Military Working Group Priority Project Inventory

September 9, 2024

San Diego Regional Military Working Group | Item 3
Danielle Kochman, Regional Planning Program Manager
Kate McCauley, Senior Regional Planner
September 9, 2024

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Military Multimodal Access Strategy

SANDAG published the **Military Multimodal Access Strategy** in December 2019. This strategy indicated that the following solutions would best help address historical coordination challenges between SANDAG and our Military partners:

- Develop a process to collaborate and prioritize transportation improvements to support both military and local needs
- Identify access improvements that benefit multiple stakeholders
- Develop recommendations and next steps to guide Military Working Group
- Serve as a model for other regions to coordinate transportation solutions with the Military, or other entities, with dispersed campuses



2

Military Installation Resilience Report

From 2020-2023, SANDAG and our Military partners worked together to publish a two-phased report, **Military Installation Resilience**, which established the following priority corridor areas:



- 1 – Pacific Highway [US-101]



- 2 – Harbor Drive



- 3 – State Route(s) 75 and 282



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Priority Project Inventory

Purpose: Identify priority projects to seek funding opportunities to improve regional resiliency, transportation access, and living experience of military community members throughout the San Diego region.

- Harbor Drive 2.0 / Vesta St. Bridge Project
- Adaptation projects for identified corridors (Pacific Highway, Harbor Drive, SR-75, SR-282)
- Improved transit service between Old Town Transit Center and Naval Base Point Loma
- Improved transit service between Coronado and Downtown (BRT, Ferry)
- LOSSAN Corridor Improvements

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Next Steps

Next steps include:

- Staff and Military Working Group to finalize priority project list and identify funding type by project (construction, design, etc.)
- Work alongside the Military Working Group to continue to identify and pursue funding opportunities in the near-term
- Build a “Notice of Funding Opportunities Playbook” with established content that enables SANDAG and Military partners to proactively prepare for funding opportunities in the longer-term



Tyndall Air Force Base in Panama City Beach, Florida, one of Jacobs' recent resilience projects, included a base-wide facilities upgrade following the destruction of Hurricane Michael in 2018.

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Questions?

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Email: Danielle.kochman@sandag.org

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September 9, 2024

SANDAG Advanced Air Mobility Strategy

Overview

Advanced Air Mobility (AAM) is a rapidly developing sector of the aerospace industry focused on providing highly autonomous aerial services for the transport of people, goods, and emergency services. While AAM is regulated by the Federal Aviation Administration (FAA), the potential impacts of these services on local communities must be considered. In 2022 SANDAG received a Caltrans Planning Grant to proactively plan for AAM. Staff will provide an update on this effort and solicit feedback from the Working Group.

Key Considerations

While AAM is an emerging industry, in the U.S. alone, the market is anticipated to reach \$115 billion annually by 2035¹. Without proper policy and planning intervention at the local and regional level, an industry driven deployment could result in poor outcomes for our region's residents. The swift adoption of on-demand shared micromobility (e.g., bikeshare, scooters, rideshare, etc.) last decade left little time for public agencies to respond, resulting in safety and accessibility concerns. Similarly, the rapidly growing AAM industry has the potential to significantly impact the built environment and transportation. Planners and policymakers must prepare for AAM now to maximize the benefits and minimize adverse impacts on communities.

SANDAG is working in coordination with industry experts and regional stakeholders to develop a framework to prepare our region for equitable and responsible AAM integration. The draft guiding principles for the framework are provided as Attachment 1. The framework will provide guidance and tools for jurisdictions to enable a more seamless deployment of AAM infrastructure. This work will also inform how AAM is considered in the next Regional Plan.

Next Steps

The AAM framework and strategy will be brought periodically to SANDAG Policy Advisory Committees and Working Groups for feedback. Staff will return to the Military Working Group early next year to share key deliverables.

Antoinette Meier, Senior Director of Regional Planning

Attachment: 1. SANDAG AAM Collaborative Guiding Principles

Action: **Information**

Staff will present the Advanced Air Mobility framework and strategy and an overview of SANDAG's long-range planning study to proactively prepare the San Diego region for the impending technology.

Fiscal Impact:

The AAM project is funded by a Caltrans planning grant under the Overall Work Program Project Number: 3401800.

Schedule Impact:

The AAM project is expected to be completed with all final deliverables by March 2025.

¹ (Aijaz Hussain, 2021)

Guiding Principles

AAM in the San Diego Region
Developing a Comprehensive Framework

Advanced Air Mobility in the San Diego Region: Developing a comprehensive framework

The San Diego region is primarily focused on achieving regional readiness for Advanced Air Mobility (AAM) as opposed to early adoption of the technology. This approach considers AAM as part of a multi-modal network and emphasizes cross-jurisdictional collaboration for infrastructure investments. The framework will focus on achieving a connected, equitable, and safe AAM ecosystem, leveraging the collective insight and expertise of various stakeholders.

Early-Stage Planning

Focus Areas for AAM in San Diego Region

These emerging guiding principles will support the development of a comprehensive and scalable framework for integrating AAM in the region.



Equity, Public Benefit,
and Engagement



Operational
Efficiency



Safety and
Security



Environmental Sustainability
and Economic Viability



Infrastructure, Demand
Capacity, and Technology
Scalability





Equity, Public Benefit, and Engagement

Emergency Services and Public Safety

Utilize AAM for faster and more efficient emergency response, including medical evacuations and wildfire control.

Public Awareness and Acceptance

Conduct public outreach programs with transparency to educate communities about the benefits and challenges of AAM.

Stakeholder Collaboration

Prioritize a community first approach throughout ongoing dialogue with stakeholders.

Inclusive and Equitable Mobility

Develop strategies to make AAM services accessible and affordable for various communities, including low-income and underserved populations.



Safety and Security

Comprehensive Safety and Security Framework

Consider a multi-faceted approach to safety and security that encompasses safe vehicle design and operation, robust physical and digital infrastructure, secure operational protocols, and a strong focus on personal safety for passengers and operators.

Crawl-Walk-Run

Adopt a "Crawl-Walk-Run" methodology in alignment with FAA guidelines to facilitate Entry into Service (EIS) operations building on existing services and infrastructure, while integrating AAM technologies, capabilities, and interoperability throughout regional projects to prepare for increasing scale and automation.



Operational Efficiency

Seamless Multi-modal Connectivity

Integrate with existing transportation modes, offering hassle-free transitions between AAM and ground-based services such as micro-mobility, public transit, and ride sharing.

Optimal Airspace Management

Collaborate with relevant regional authorities and stakeholders to create a shared understanding of airspace management and minimize conflicts with other air traffic.



Environmental Sustainability and Economic Viability

Low Emissions

Promote energy-efficient technologies and practices consistent with climate friendly priorities.

Noise Abatement

Understand potential noise impacts at the source and recommend noise reduction technologies and initial operational procedures.

Financial Sustainability

Consider sustainable business models that attract investments and maintains operational viability over the long term.

Workforce Development

Foster local employment opportunities in various AAM domains, including operations, maintenance, and administrative roles.



Infrastructure, Demand Capacity and Technology Scalability

Vertiport Infrastructure

Update local government land development codes to facilitate a model vertiport permitting process.

Grid and Fuel Sustainability

Address future demand on the electrical grid with infrastructure improvements and supporting policies.

Demand Capacity Building (DCB)

Provide a foundation that can support DCB from market entry to scalable operations and usage.

Flexible and Scalable Technology Development

Prioritize architecture for AAM services that is flexible and scalable with a focus on future-proofing investment.

Collaborative Outcomes

The insights and outcomes generated by the collaborative will inform the following deliverables:

Task 4: Public Outreach and Education Strategy: Develop a comprehensive plan to inform and educate the public about the benefits and challenges of AAM.

Task 5: AAM Regional Policy Framework: Formulate and refine regional policy guidelines that cater to the unique needs and constraints of the San Diego region.

Task 6: Regional AAM Implementation Strategy: Create a roadmap for regional implementation of AAM, keeping in view the broader transportation network.



SANDAG Advanced Air Mobility

San Diego Regional Military Working Group | Item 4
Kate McCauley, Senior Regional Planner
September 9, 2024



1



Advanced Air Mobility 101

2

2

What is Advanced Air Mobility?

Defining “Advanced Air Mobility”

- **Advanced Air Mobility (AAM)** is an emerging market in the aerospace industry that explores novel aircraft and supporting infrastructure to provide additional aerial transportation for people, freight, and emergency services.

Early Trends in the United States

- **Drone Delivery:**
 - Texas
 - North Carolina
 - San Diego
- **Advanced Air Mobility Programs:**
 - Ohio
 - New York
 - California
 - SANDAG, City of Los Angeles, City of Long Beach



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AAM: Categories

Regional Air Mobility (RAM)

- Inter-city and/or regional destinations over routes of up to around 190 miles.
 - **Use Cases:** People, Freight, Emergency Services



Urban Air Mobility (UAM)

- Passengers and cargo in and around urban environments with routes of up to around 30 miles.
 - **Use Cases:** People, Freight, Emergency Services



Uncrewed Aircraft Systems (UAS)

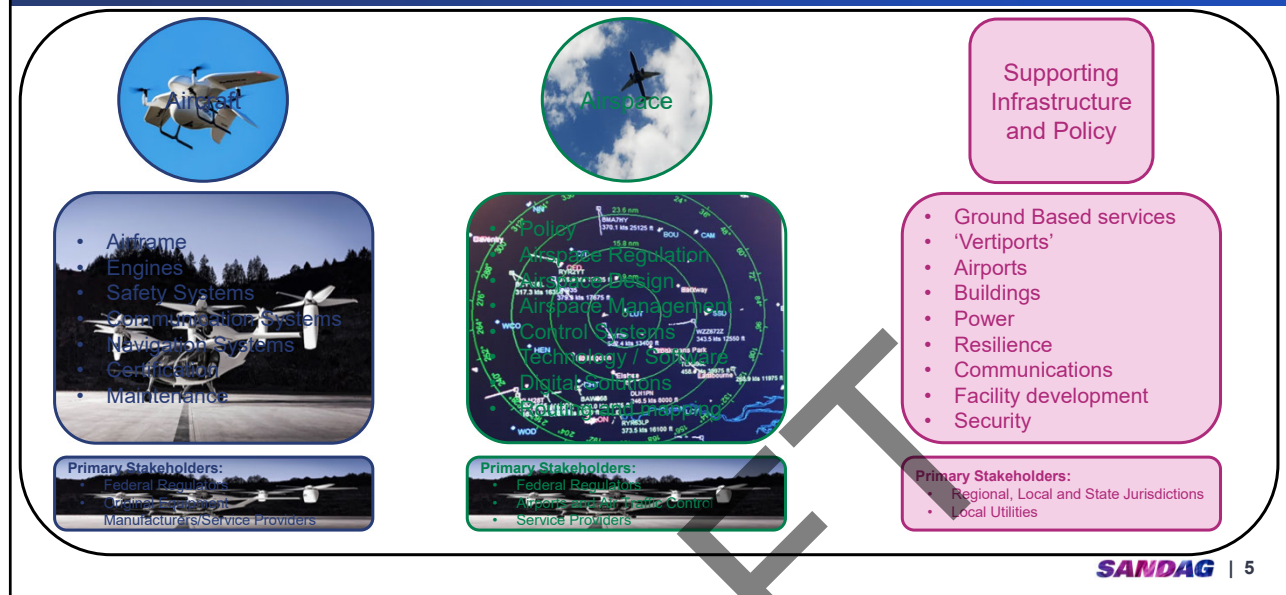
- Small aircraft for the delivery of goods and services.
 - **Use Cases:** Cargo, Services



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AAM: Elements



5

AAM: Airspace



6

AAM: Land Use and Infrastructure Considerations



Verti-What?

Vertiports, Vertistops, and Vertihubs are infrastructure concepts meant to accommodate AAM vehicles.

- A “**Vertihub**” is the largest facility concept and can be equated to a Transportation Investment Zone that accommodate AAM aircraft as a middle-mile component of a larger network of last-mile modalities.
- Think electrified heliports of the future!

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SANDAG AAM Strategy



Establish a clear and uniform vision for integrating AAM in the region



Address major concerns and needs



Define individual roles and responsibilities



Identify non-negotiables as they relate to permitting and transportation integration



Consider CEQA & NEPA implications



Focus on designing efficient vertiport facilities and operations

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SANDAG AAM Deliverables

Completed Deliverables

- Internal Industry and Market Assessment Repository
- AAM Collaborative (ongoing)
 - Guiding Principles

Next Steps:

- Regional Policy Framework
- Implementation Strategy
- Stakeholder and Public Engagement Strategy

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Industry Assessment

Advanced Air Mobility in San Diego

A review of publications in the AAM Industry from OEMs and existing use cases through to industry guidance and regulations.

[View Document List](#)

Information by Focus Area

- Community Engagement
- Environment & Sustainability
- Infrastructure
- Commercial
- Regulatory
- Safety
- Technology
- Transport Connectivity
- Workforce Development

Questions?

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SANDAG AAM Project & Collaborative

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SANDAG AAM: Vision for Early-Stage Planning

Guiding Principles:
A **comprehensive, equitable, sustainable, and resilient multi-modal transportation network**, with robust air transport, that extends beyond the San Diego jurisdictional line and enables the **safe, expeditious movement of goods, services, and people**.



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Work Streams & Focus Areas

Operational Efficiency, Safety and Security

Seamless Multi-modal Connectivity

Optimal Airspace Management

Safety & Security Framework

Step-by-step

Infrastructure, Demand Capacity and Technology Scalability

Vertiport Infrastructure

Grid and Fuel Sustainability

Demand Capacity Building

Flexible and Scalable Technology Development

Environmental Sustainability and Economic Viability

Low Emissions

Noise Abatement

Financial Sustainability

Workforce Development

Equity, Public Benefit and Engagement

Emergency Services Enhancement

Public Awareness and Acceptance

Stakeholder Collaboration

Inclusive and Equitable Mobility

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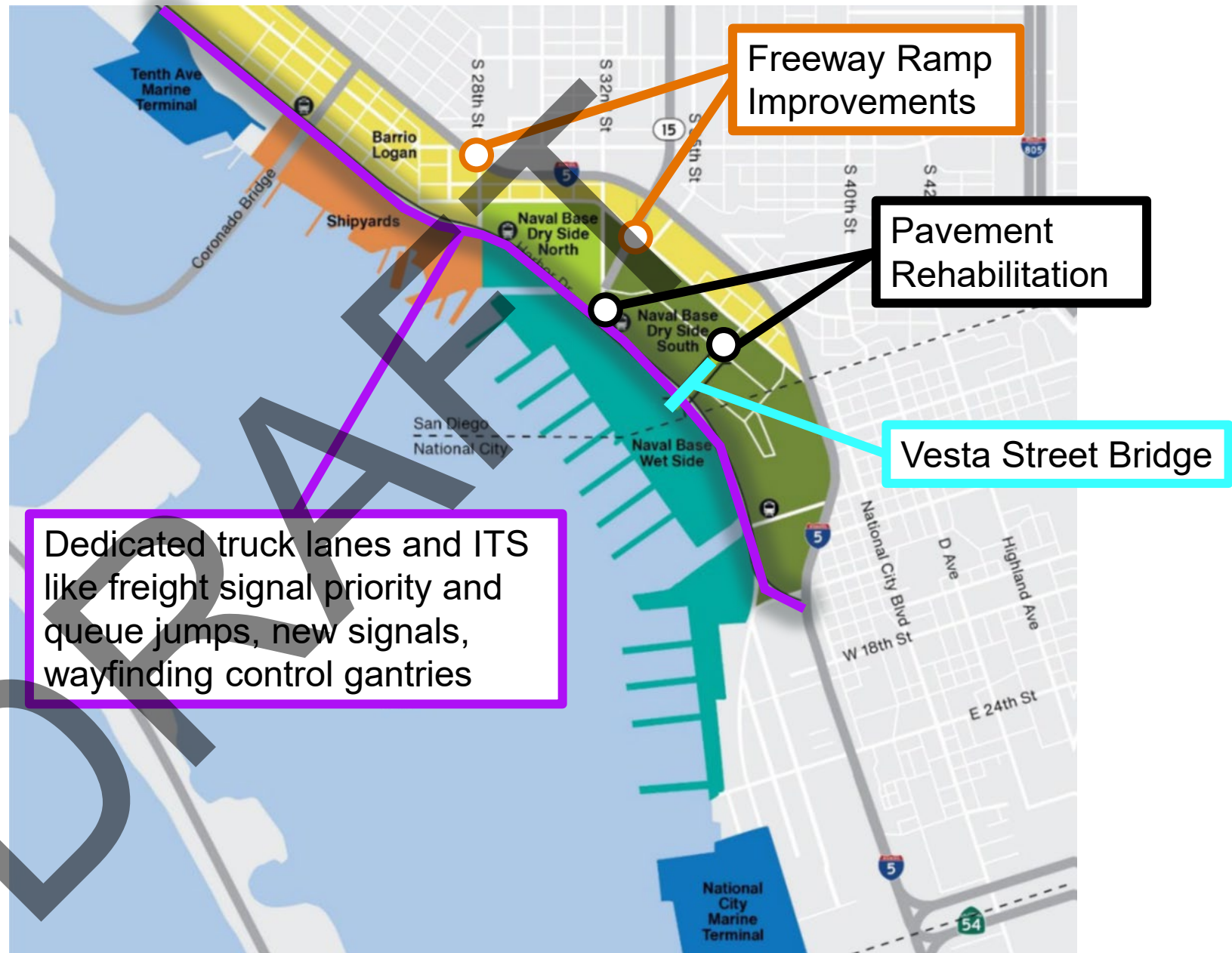
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Harbor Drive 2.0 and Vesta Street Bridge Port Access Improvements

Enhancing Freight and Community Mobility in San Diego's
Working Waterfront

Project Features

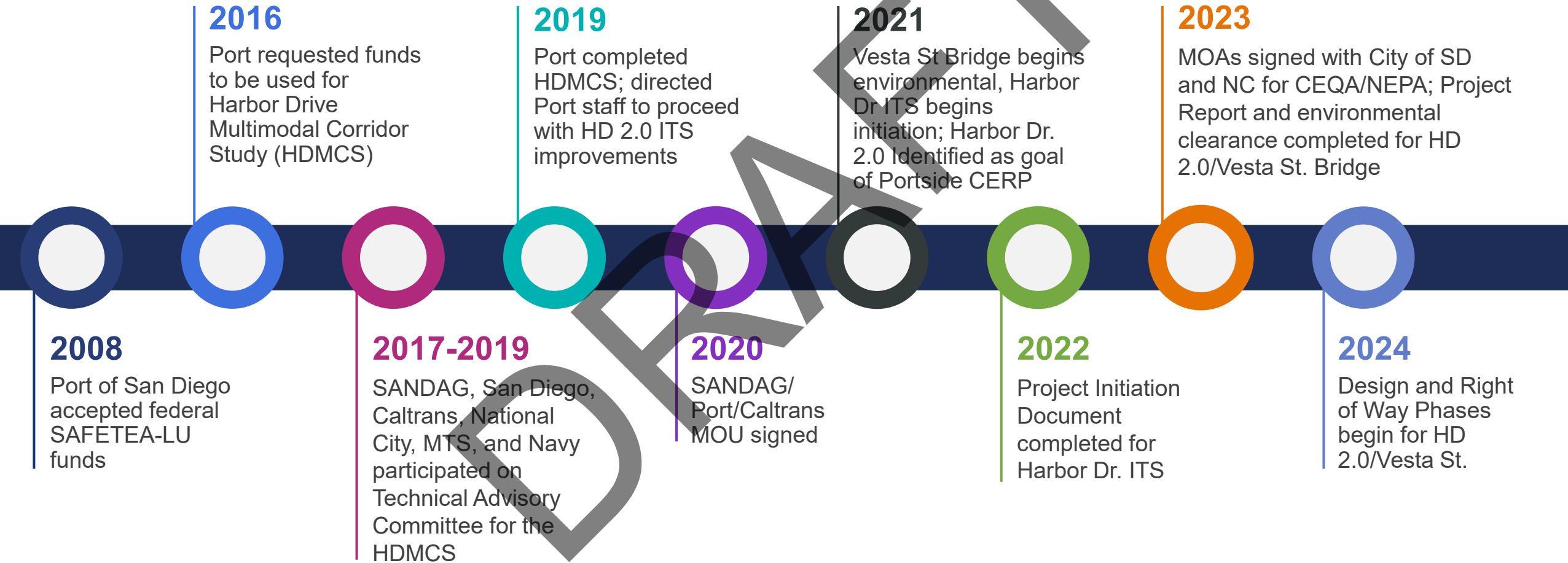


Project Purpose

- Improve community safety
- Prioritize safe access to transit and active transportation
- Enhance freight and community mobility between the Working Waterfront, I-5, and SR-15
- Improve mobility and multimodal connectivity for Naval Base Personnel while reducing congestion
- Rehabilitate degraded pavement
- CERP Goal #9 – Implement HD2.0 (2031)



Harbor Drive Corridor History



Design and Right-of-Way Agency Roles

Vesta Street Bridge Component

- **Implementing Agency:** Caltrans
- **Design Lead:** Caltrans
- **Right-of-Way Lead:** SANDAG

Harbor Dr ITS Component

- **Implementing Agency:** SANDAG
- **Design Lead:** SANDAG (civil design participation by Caltrans)
- **Right-of-Way Lead:** SANDAG

Reviewing Agencies

- Port of San Diego
- City of San Diego
- City of National City
- Naval Base San Diego
- Caltrans

Harbor Drive 2.0 Project Elements

- Freight Signal Prioritization
- Freight queue jumps
- Dedicated Truck lanes
- Truck-Only Lanes (off-peak)
- Zero emission Vehicle Charging

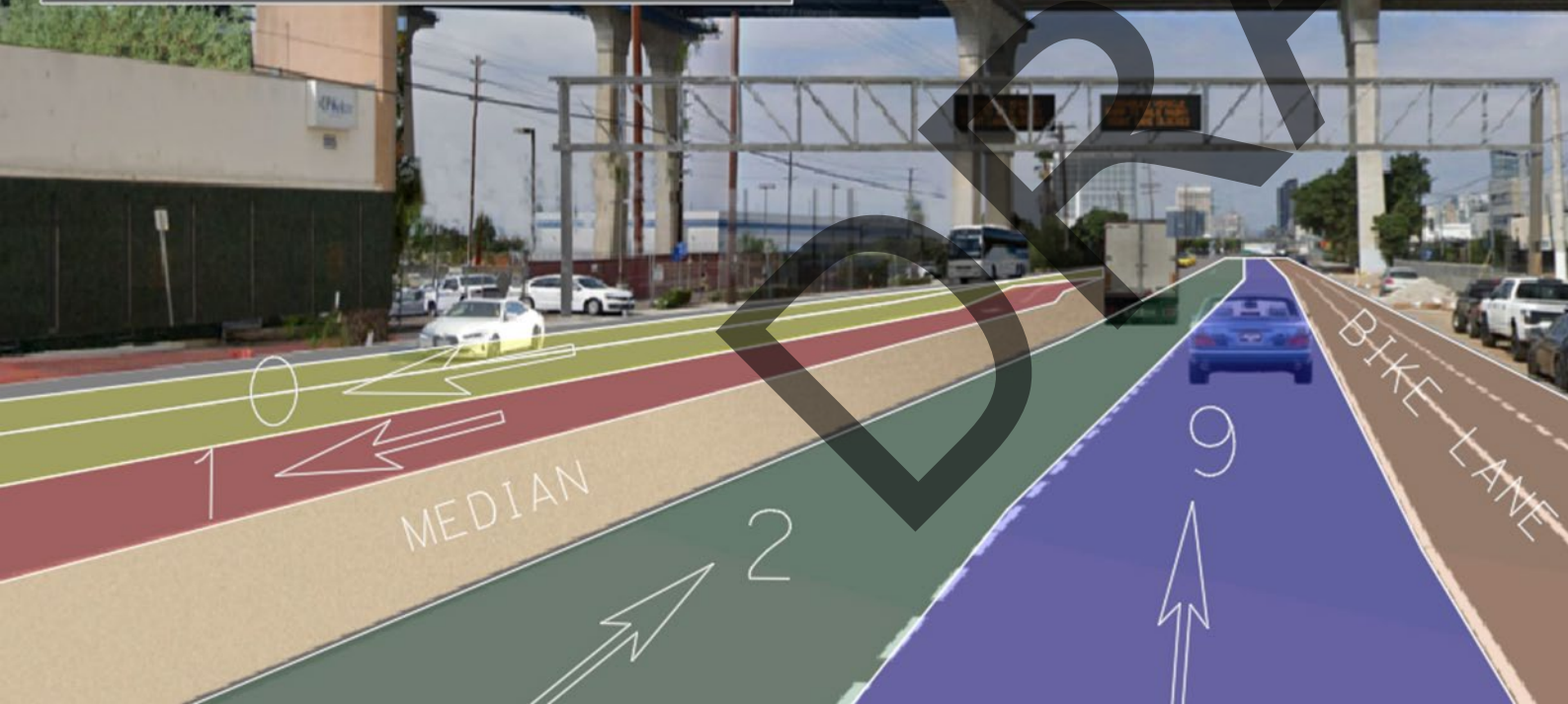


Challenges and Opportunities

KEY VIEW - LANE CONFIGURATION

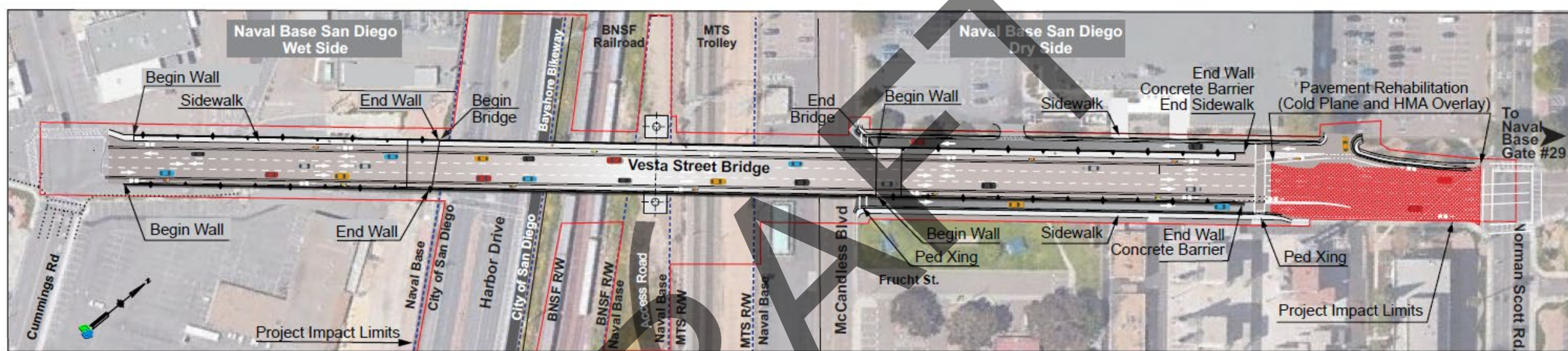
LEGEND:

1	TRUCK ONLY LANE
2	TRUCK ONLY LANE DURING NON-PEAK HOURS
9	AUTO ONLY DURING NON-PEAK HOURS
0	GENERAL PURPOSE (ALL VEHICLE TYPES)
	BIKE LANE

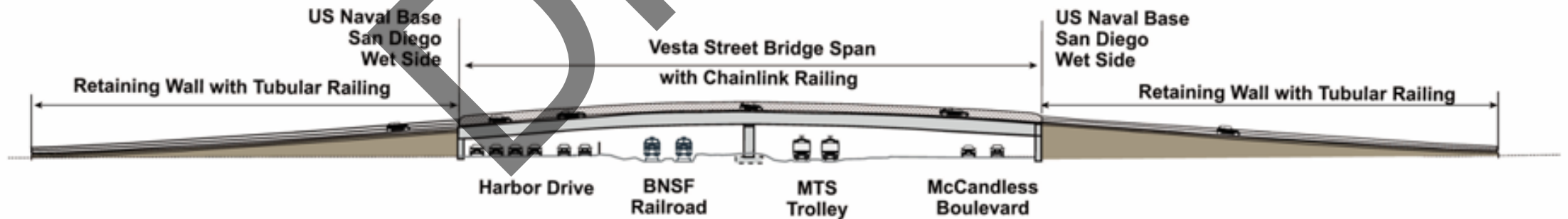


- Travel times and signal timing
- At grade rail crossings (BNSF and MTS)
- Coordination
 - Ongoing projects
 - Multiple jurisdictions
- Urban greening

Vesta Street Bridge Project Elements



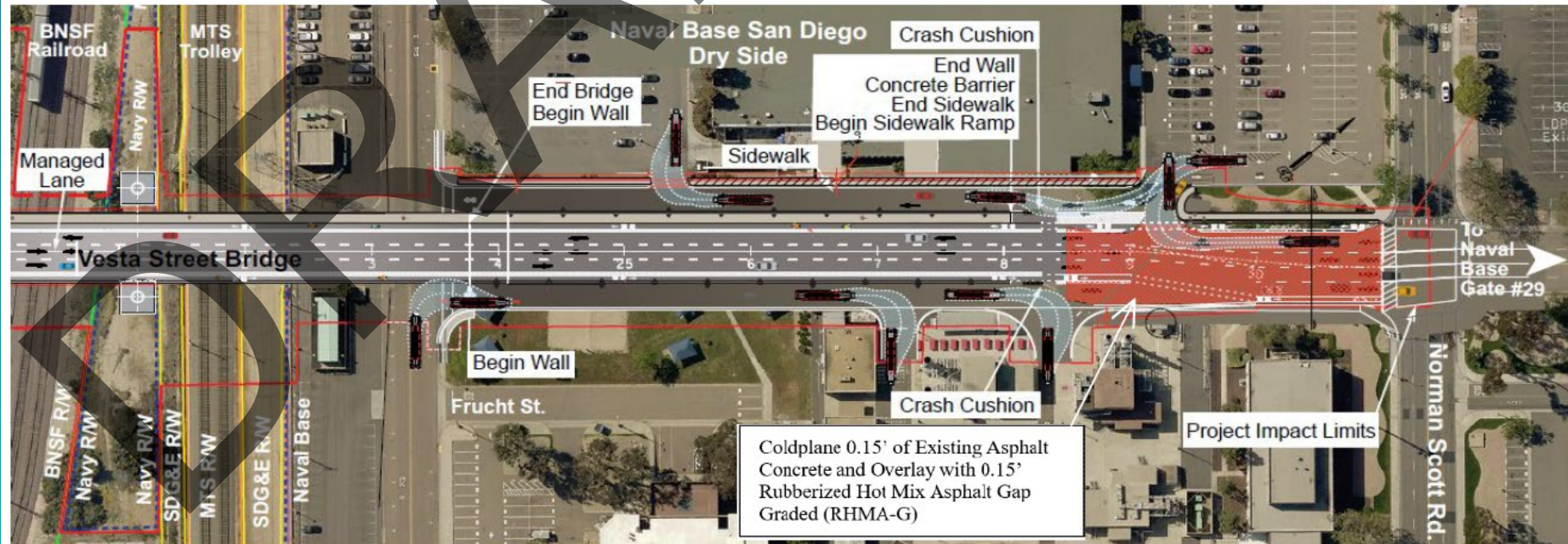
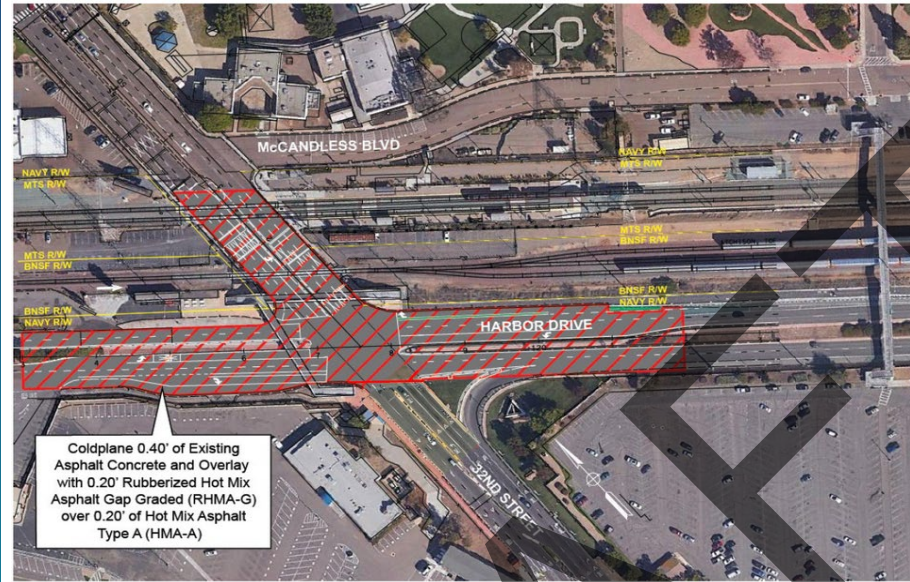
Bridge Concept



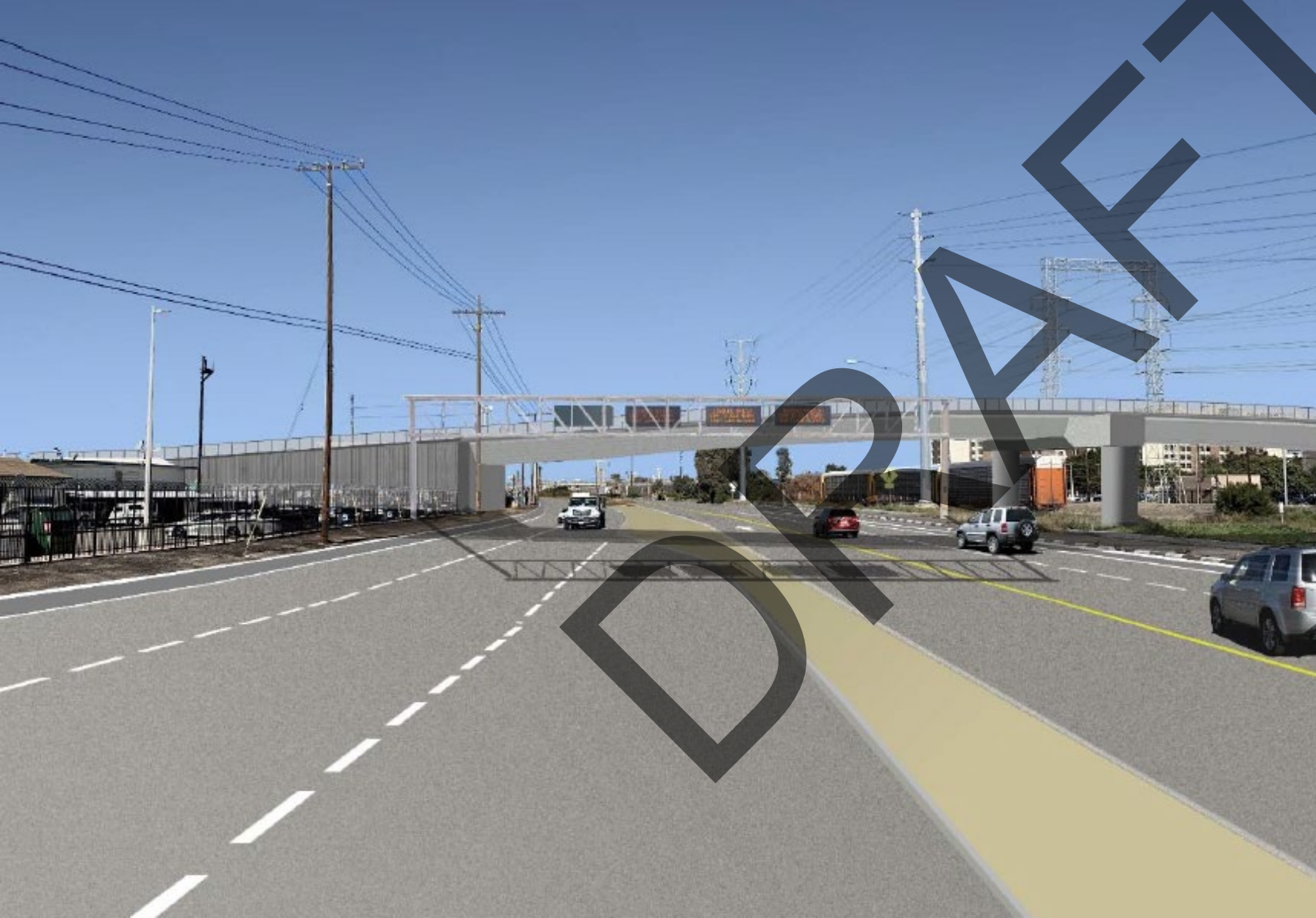
Widening at SB SR-15 Off-ramp to Main St



Pavement Rehabilitation



Cast-in-Place Bridge Alternative



2 Span Cast-in-Place Bridge

2 - 263 ft span lengths with an anticipated structure depth of 10.75 ft

Profile: 9.76% (wet) & -8.00% (dry)

Precast Girder Alternative



4 Span Precast Girder Bridge

120.5 ft, 142.5 ft, 154 ft, 109 ft span lengths with an anticipated structure depth of 6.5 ft

Profile: 6.41% (wet) & -5.77% (dry)

Caltrans-Navy Agreements

- Real Estate Agreement
- Letter of Support
- Operations & Maintenance (O&M) Agreement

DRAFT

Draft Schedule Look Ahead

Winter 2023

Project Approval and Environmental Document (CEQA)/Environmental Assessment (NEPA)

Summer 2024

Initiate Design Procurements (traffic study, microsimulation, Concept of Operations, ROW expertise)

2026-2028

Select Delivery Method and identify funding for Construction; Begin Construction

Spring 2024

- Allocation of \$18.5M TCEP
- Allocation of \$2.2M match by Port of SD
- Award \$11M Reconnecting Communities

Fall 2024-2026

PDT meetings, iterative design activities, coordinate with other projects, outreach

Contact Information



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