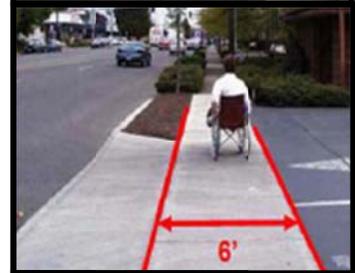
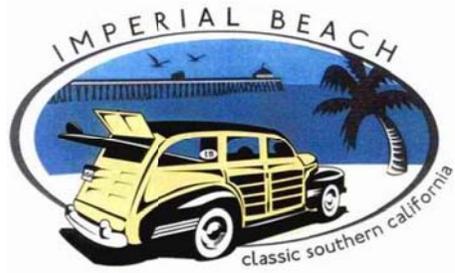
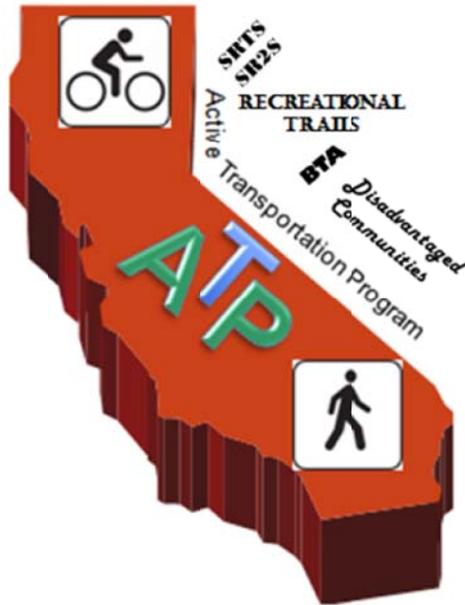


APPLICATION CYCLE 1 ACTIVE TRANSPORTATION PROGRAM (ATP)

Project Name:

City of Imperial Beach - Safe Routes to Schools Elm Avenue
Traffic, Pedestrian and Cycling Safety and Mobility Improvement
Project



For Caltrans use only: TAP STP RTP SRTS SRTS-NI SHA
 DAC Non-DAC Plan

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I. GENERAL INFORMATION

Project name: Elm Avenue Traffic, Fedestrian and Cycling Safety and Mobility Improvement Project

(fill out all of the fields below)

<p>1. APPLICANT (Agency name, address and zip code) City of Imperial Beach, 825 Imperial Beach Blvd., Imperial Beach, CA 91932</p>	<p>2. PROJECT FUNDING</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">ATP funds Requested</td> <td style="width: 5%;">\$</td> <td style="width: 35%; text-align: right;">709,000.00</td> </tr> <tr> <td>Matching Funds (If Applicable)</td> <td>\$</td> <td style="text-align: right;">0.00</td> </tr> <tr> <td>Other Project funds</td> <td>\$</td> <td style="text-align: right;">750,000.00</td> </tr> <tr> <td>TOTAL PROJECT COST</td> <td>\$</td> <td style="text-align: right;">1,459,000.00</td> </tr> </table>	ATP funds Requested	\$	709,000.00	Matching Funds (If Applicable)	\$	0.00	Other Project funds	\$	750,000.00	TOTAL PROJECT COST	\$	1,459,000.00
ATP funds Requested	\$	709,000.00											
Matching Funds (If Applicable)	\$	0.00											
Other Project funds	\$	750,000.00											
TOTAL PROJECT COST	\$	1,459,000.00											
<p>3. APPLICANT CONTACT (Name, title, e-mail, phone #) Hank Levien, Public Works Director hlevien@cityofib.org (619) 628-1369</p>	<p>5. PROJECT COUNTY(IES): County of San Diego</p>												
<p>4. APPLICANT CONTACT (Address & zip code) City of Imperial Beach, 825 Imperial Beach Blvd., Imperial Beach, CA 91932</p>	<p>7. Application # <u>1</u> of <u>3</u> (in order of agency priority)</p>												
<p>6. CALTRANS DISTRICT #. Click Drop down menu below District 11</p>													

Area Description:

<p>8. Large Metropolitan Planning Organization (MPO)- Select your "MPO" or "Other" from the drop down menu></p>	<p>SANDAG San Diego Assiciation of Governments</p>
<p>9. If "Other" was selected for #8- select your MPO or RTPA from the drop down menu></p>	
<p>10. Urbanized Area (UZA) population (pop.)- Select your UZA pop. from drop down menu></p>	<p>Within a Large MPO (Pop > 200,000)</p>

Master Agreements (MAs):

11. Yes, the applicant has a FEDERAL MA with Caltrans.
12. Yes, the applicant has a STATE MA with Caltrans.
13. If the applicant does not have an MA. Do you meet the Master Agreement requirements? Yes No
The Applicant MUST be able to enter irto MAs with Caltrans

Partner Information:

<p>14. Parner Name*:</p>	<p>15. Partner Type</p>
<p>16. Contact Information (Name, phone # & e-mail)</p>	<p>17. Contact Address & z p code</p>

Click here if the project has more than one partner, attach the remaining partner information on a separate page

*If another entity agrees to assume responsibility for the orgoing operations and maintenance of the facility, documentation of the agreement must be submitted with the application, and a copy of the Memorandum of Understanding or Interagency Agreement between the parties must be submitted with the request for allocation.

Project Type: (Select only one)

18. Infrastructure (IF) 19. Non-Infrastructure (NI) 20. Combined (IF & NI)

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
- Bicycle Plan Safe Routes to School Plan Pedestrian Plan
 Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

22. Bicycle and/or Pedestrian infrastructure
- Bicycle only: Class I Class II Class III
Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other:

23. Non-Infrastructure (Non SRTS)

24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS: Mar Vista High School (MVHS) (Grades 9-12), 505 Elm Avenue, Imperial Beach, CA 91932
27. SCHOOL DISTRICT NAME & ADDRESS: Sweetwater Union High School District, 1130 Fifth Ave, Chula Vista, CA 91911-2896

28. County-District-School Code (CDS) 37684113733953	29. Total Student Enrollment 1,732	30. Percentage of students eligible for free or reduced meal programs ** 59.30
31. Percentage of students that currently walk or bike to school 18% walk, 8% bike	32. Approximate # of students living along school route proposed for improvement 4	33. Project distance from primary or middle school Immediately in front of school

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
 Bicycle Plan Safe Routes to School Plan Pecestrian Plan
 Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

22. Bicycle and/or Pedestrian infrastructure
Bicycle only: Class I Class II Class III
Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other:

23. Non-Infrastructure (Non SRTS)
24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS:

Imperial Beach Charter School (Grades K-8), 650 Imperial Beach Blvd, Imperial Beach, CA 91932

27. SCHOOL DISTRICT NAME & ADDRESS:

South Bay Union School District, 601 Elm Avenue, Imperial Beach, CA 91932

28. County-District-School Code (CDS) 37683956040505	29. Total Student Enrollment 980	30. Percentage of students eligible for free or reduced meal programs ** 57.73
31. Percentage of students that currently walk or bike to school 4% walk, 6% have bike permits	32. Approximate # of students living along school route proposed for improvement 4	33. Project distance from primary or middle school Directly adjacent to school (on corner)

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
 Bicycle Plan Safe Routes to School Plan Pedestrian Plan
 Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

22. Bicycle and/or Pedestrian infrastructure
Bicycle only: Class I Class II Class III
Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other:

23. Non-Infrastructure (Non SRTS)
 24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS:

Friendship School (ages 3-22), 601 Elm Avenue, Imperial Beach, CA 91932

27. SCHOOL DISTRICT NAME & ADDRESS:

San Diego County Office of Education, 6401 Linda Vista Road, San Diego, CA 92111

28. County-District-School Code (CDS) 371037160693553704	29. Total Student Enrollment 41	30. Percentage of students eligible for free or reduced meal programs ** 39.00
31. Percentage of students that currently walk or bike to school 0	32. Approximate # of students living along school route proposed for improvement 0	33. Project distance from primary or middle school Immediately in front of school

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

I. GENERAL INFORMATION-continued

Sub-Project Type (Select all that apply)

- 21. Develop a Plan in a Disadvantaged Community (select the type(s) of plan(s) to be developed)
 - Bicycle Plan Safe Routes to School Plan Pedestrian Plan
 - Active Transportation Plan

(If applying for an Active Transportation Plan- check any of the following plans that your agency already has):

- Bike plan Pedestrian plan Safe Routes to School plan ATP plan

- 22. Bicycle and/or Pedestrian infrastructure
 - Bicycle only: Class I Class II Class III
 - Ped/Other: Sidewalk Crossing Improvement Multi-use facility

Other:

- 23. Non-Infrastructure (Non SRTS)
- 24. Recreational Trails*- Trail Acquisition

***Please see additional Recreational Trails instructions before proceeding**

- 25. Safe routes to school- Infrastructure Non-Infrastructure

If SRTS is selected, provide the following information

26. SCHOOL NAME & ADDRESS: Sweetwater Community Day School, 505 Elm Ave, Imperial Beach, CA 91932
27. SCHOOL DISTRICT NAME & ADDRESS: Sweetwater Union High School District, 1130 Fifth Ave, Chula Vista, CA 91911-2896

28. County-District-School Code (CDS) 0638640'08310	29. Total Student Enrollment 45	30. Percentage of students eligible for free or reduced meal programs **
31. Percentage of students that currently walk or bike to school 0	32. Approximate # of students living along school route proposed for improvement 0	33. Project distance from primary or middle school Immediately in front of school

**Refer to the California Department of Education website: <http://www.cde.ca.gov/ds/sh/cw/filesafdc.asp>

- Click here if the project involves more than one school; attach the remaining school information including school official signature and person to contact, if different, on a separate page

San Diego's Health and Human Services Agency staff. Through these meetings, the following existing problems were identified that impede the use of active transportation modes:

1. No designated bike lanes or safe place to bike
2. Pedestrian sidewalk in front of education cluster is too narrow (between 4th and 7th streets)
3. High vehicular speeds
4. Crosswalks near education cluster are not easy to see
5. Line of site problems due to parking in front of the school. Motorists cannot see pedestrians, cyclists or oncoming traffic
6. Drainage issues cause flooding near 5th Street
7. No crosswalk on the east side of 5th street at Elm Avenue and many students cross on that side
8. School bus parking on street creates poor visibility for motorists and line of site visibility for walkers/bikers
9. Not enough bike racks/corrals at schools
10. No connection to bike/walk-friendly network to the greater City area

The **scope of work** to remedy and mitigate the above needs/problems includes the following for streetscape improvements on Elm Avenue between Seacoast Drive and 7th Streets and on Connecticut near the corner of Elm Avenue:

- Narrowed travel lanes between 4th and 7th Streets
- Tabletop at intersection of Elm Ave. and 5th Street
- 6-to 8-foot wide asphalt bike lane separated from sidewalk and road (Class I in school area)
- Striping of Class III bike lane from 4th to Seacoast Drive connecting to the City's Class III Imperial Beach Bicycle Network
- 6- to 8-foot wide concrete sidewalk separated from the bike path and road
- Dedicated student drop off location separate from vehicular traffic
- Dedicated bus-only loading location separate from vehicular traffic
- Stormwater best management practices (BMPs)
- Drainage improvements
- Aesthetic improvements

- New bike racks

Project Status: The project has completed the concept design phase. Concept designs have been vetted through six workshops/public meetings involving school representatives, parents, students, residential neighbors, Imperial Beach City Council, County of San Diego Health and Human Services Agency, and the County of San Diego Sheriff who each identified concerns and barriers that inhibit biking and walking as a safe route to the schools and distinguished the needs, and the requirements and improvements necessary, to remove these barriers.

It is anticipated that a design development preliminary engineering phase will be conducted with stakeholder input to select finish materials, plant types, and location of enhanced intersections prior to construction documents and project implementation. It is also anticipated that the City of Imperial Beach will seek and receive a categorical exemption from CEQA requirements.

III. SCREENING CRITERIA

1. Demonstrated Needs of the Applicant

Infrastructure

The purpose of the infrastructure project and plan development for the Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project is to:

1. Promote walking and bicycling to school safely
2. Routinely increase the number of students using active transportation modes to school
3. Improve health
4. Improve personal and traffic safety
5. Heighten awareness about the benefits of active transportation
6. Decrease school-related vehicle trips
7. Improve air quality and reduce traffic congestion at the schools
8. Provide active transportation access connection to the existing Imperial Beach Bicycle Network to access the coast, bus stops, and the city at large

The **needs** of the project were identified through a series of workshops and open house meetings. The City of Imperial Beach met with school leaders, parents, students, neighbors, Circulate San Diego, and representatives from the County of San Diego's Health and Human Services Agency over the course of ten workshops/public meetings to identify active transportation barriers and access problems to and from the four schools on the proposed project area of Elm Avenue. The four schools, Imperial Beach Charter, Mar Vista High, Sweetwater Community Day, and Friendship schools, serve grades K through 12, with the addition of those up to age 22 with special needs, and are attended by a total of 2,798 students. The following problems were identified through community meetings as safety hazards and impediments which demonstrate the need for the project and help identify the purpose and improvements needed to increase the use of active transportation modes and improve safety in accessing the four schools. Please see answer to question 2, D for a proposed solution to each barrier listed below.

1. No designated bike lanes or safe place to bike
2. Pedestrian sidewalk in front of education cluster is too narrow (between 4th and 7th streets)

- | | |
|--|--|
| 3. High vehicular speeds | 7. No crosswalk on east side of the crossing (at 5 th) |
| 4. Crosswalks near education cluster are not easy to see | and many students cross on that side |
| 5. Line of site problems due to parking in front of the school. Motorists cannot see pedestrians, cyclists or oncoming traffic | 8. School bus parking on street creates poor visibility for motorists and line of site visibility for walkers/bikers |
| 6. Drainage issues cause flooding near 5 th Street | 9. Not enough bike racks/corrals at schools |
| | 10. No connection to bike/walk-friendly network to the greater City area |

The **goals** of the infrastructure project are to connect the school zone to an active transportation network increasing the number of active users. This will be accomplished by:

1. Widening designated pedestrian and bicycle ways (including ADA access) in education cluster area
2. Separating bicycle lanes from sidewalks and vehicular traffic in education cluster area
3. Reducing vehicular speeds and improve traffic flow in education cluster area
4. Improving safety and demonstrate to parents and students the significantly improved safety aspects realized from the completion of the project to students and the community
5. Increasing the number of students and community members using active transportation modes for school access
6. Reducing automobile traffic congestion in the in education cluster area
7. Increasing the health of students and the community in a disadvantaged area by increasing exercise levels and improving air quality
8. Creating new connections to existing Imperial Beach Bicycle Network that also connects to bus transit

Public Awareness and Promotional Campaigns

The purpose, need, and goal of the **public awareness and promotion campaigns** is twofold.

(1) Construction: A student/parent/staff safety campaign will be implemented from pre-construction through post construction for the **purpose** of ensuring that all stakeholders safely access the schools and worksites

during construction and are aware of the hazards. The construction safety campaign is **needed** because construction will not be able to be completed during the schools' brief month and half summer break and construction activity will occur during part of the school year. The **goal** is for school principals to effectively communicate with students/parents/educators/staff to increase awareness about safe behavior in the construction zones. Outreach to residents on Elm Avenue will also be conducted during the construction phase to keep them informed of the potential impacts and project schedule.

(2) Biking and Walking Campaign: After the project is complete, an Active Transportation Promotion Campaign will be conducted. The **purpose** of this campaign is to increase the use of active transportation modes. The **need** of this campaign is to overcome the barriers of using active transportation identified after the infrastructure improvements. The **goal** of the campaign is to inform parents and students of the new improvements on Elm Avenue, demonstrate how the improvements promote safe school access using active transportation modes, and identify and use key messages that will overcome barriers and encourage students to walk and bike to school. These efforts may include creating student flyers, coordinating parent/teacher presentations, assisting with planning a bicycle skills event and/or bike safety day, and assisting in promoting Bike to School Day and May Bike Month activities. The campaign will coordinate with the various stakeholders and other entities, such as school administrators, teachers, school district, PTA, County Sheriff, Circulate San Diego, and SANDAG programs.

2. Consistency with Regional Transportation Plan (100 words or less)

SANDAG adopted the 2050 Regional Transportation Plan (RTP) on Oct. 28, 2011. The City of Imperial Beach's Elm Avenue project is consistent with and achieves the RTP's Safe Routes to School strategy by providing adequate walk and bikeways to school, increasing the number of students using active transportation modes to school through improvements and awareness campaigns, improving health, decreasing school- and work-related vehicle trips, improving personal and traffic safety, heightening awareness about the benefits of active transportation through awareness campaigns, and improving air quality and reduce traffic congestion at the schools by increasing the use of active transportation modes.

IV. NARRATIVE QUESTIONS

1. POTENTIAL FOR INCREASED WALKING AND BICYCLING.

A. Describe how your project encourages increased walking and bicycling, especially among students.

The various project improvements will significantly improve student pedestrian and cyclist safety on the route to and from school and will provide a new connection to the Imperial Beach Bicycle Network. The increase in safety (both actual and perception) is expected to encourage and increase the use of active transportation modes for school access. Combined with a school specific awareness and active transportation promotion campaign, a significant increase in students (and many parents of elementary-aged students) is expected to use the new amenities to safely access the educational facilities using various active transportation modes, including walking, bicycling, skateboarding and scootering.

A student/parent/educator/staff awareness and promotion campaign will be planned and implemented for the project from pre- through post-construction. Construction is planned during the schools' summer break but due to the short duration of the summer break (one and a half months), it will be necessary to work with the school principals to effectively communicate with students/parents to educate and increase awareness about safe behavior in the construction zones. Outreach to residents on Elm Avenue will also be conducted during the construction phase to keep them informed of the potential impacts and project schedule.

After the project is complete, an Active Transportation Promotion Campaign will be conducted to inform parents and students of the new improvements on Elm Avenue and to encourage students to use active transportation modes to access their school each day. These efforts may include creating student flyers, coordinating parent/teacher presentations, assisting with planning a bicycle skills event and/or bike safety day, and assistance in promoting Bike to School Day and May Bike Month activities.

B. Describe number, type of users, destinations, and the anticipated percentage increase in users upon completion of your project. Data collection methods should be described.

Table 1. School Counts

School	Grades/Ages	# of Students Enrolled	# Walking	# Biking	Est. Increase in AT
Mar Vista High School	Grades 9-12	1,732	312	139	20%
Imperial Beach Charter School	Grades K-8	980 (plus 75 staff)	40	59	50%
Sweetwater Community Day	Grades 7-9	45	0	0	0%
Friendship School	Ages 3-22	41	0	0	0%
South Bay Union School District	N/A	50 Employees	15	5	10%
Data collection methods include interview with school and school district representatives, information published by the CA Department of Education. Schools and the project location are located in a disadvantaged community (median household income is less than 80% of the statewide median)					

It should be noted that the counts above are those walking and biking from the cluster of education facilities off the project site. Monitoring of the number of students and community members walking and biking before construction and after project completion will be conducted to determine the increase in users.

C. Describe how this project improves walking and bicycling routes.

The project's proposed improvements will have wide-ranging benefits to walking and bicycling routes connecting to various points of interest, transit locations, and community centers. The project will provide a new connection from the schools and surrounding neighborhood to the city at-large and cities to the north.

The project improvements will connect to the following:

1. Imperial Beach Bicycle Network (route diagram is on page 4-4, Figure 4.1 of the Bicycle Transportation Plan attached in section IX of this application)
2. Tijuana Estuary
3. SANDAG's Bay Shore Bikeway (24-mile bicycle route around San Diego Bay through the Cities of San Diego, National City, Chula Vista, Imperial Beach and Coronado) (attached in section IX of this application)
4. Local bus transit
5. Imperial Beach Boys and Girls Club (located two blocks east of the proposed project)
6. Naval Outlying Field

D. Describe how this project increases and/or improves connectivity, removes a barrier to mobility.

The project will improve safety and access problems that currently exists at Mar Vista High, Imperial Beach Charter, the Friendship School (41 students enrolled), and Sweetwater Community Day School (45 students enrolled). This project will also remove multiple barriers identified by project stakeholders over the course of ten workshops and public meetings. The project improves connectivity by tying into the City of Imperial Beach's Bicycle Transportation Plan and the Bay Shore Bikeway which access bus stops, the beach, the Imperial Beach Boys and Girls Club (which plays an active role in the community), the Tijuana Estuary beach, cities outside Imperial Beach and other important destinations. The new improvements will be widely used by active transport users, as there is less vehicular traffic on Elm Avenue than its parallel roads, Palm Avenue and Imperial Beach Boulevard.

Below are the issues raised through community workshops/meetings and the planned improvements to resolve the problem/barrier.

- **Barrier** - There is no safe place for cyclists or skateboarders. No designated bike lanes.

Response - Designated bike lanes are proposed. Those in front of schools are separated from vehicular traffic. Class I bike lane is proposed from 4th to 7th streets and Class III striped bike lane proposed from Seacoast Drive to 4th Street.

- **Barrier** - High vehicular speeds, conflicts between pedestrians, bicyclists, and vehicles.

Response – Traffic calming measures will be implemented. Lanes are narrowed and a tabletop is proposed at Elm Avenue and 5th Street. Bicycle paths and sidewalks are proposed as separate items to increase safety among those using methods of active transport. New crosswalks are also proposed. A Class III striped bike lane proposed from Seacoast Drive to 4th Street.

- **Barrier** - Crosswalks are not easy to see.

Response – Crosswalks will be striped and clearly designated.

- **Barrier** - Parking in front of the school within the travel lanes and no dedicated student drop off area makes it dangerous for bikers and skaters due to vehicles backing out of parking spaces.

Response - Parking in front of the school will be removed and a dedicated loading/drop-off area separate from the travel way is part of the proposed concept design. The proposed parking includes a few spaces directly off the street west of the loading/drop-off area.

- **Barrier** - There are driveways without markings leading to the schools.

Response – Driveways will be designated properly and be located directly off the road, with bike lanes and sidewalks crossing the flat portion of the driveways.

- **Barrier** - Narrow sidewalks in the school zone

Response – Sidewalks in the school zone will be 6- to 8-feet with aesthetic improvements as a divider between the sidewalk and bikeway with another aesthetic divider between the bikeway and vehicular travel way. The aesthetic improvements provide for increased safety.

- **Barrier** - Street drainage issues cause flooding.

Response – A new storm drain system with two more inlets is proposed on the south side of Elm Avenue. A tabletop at the intersection of Elm Avenue and 5th Street is proposed, all of which will mitigate flooding.

- **Barrier** – Students do not utilize the single designated crosswalk at the intersection of 5th and Elm.

Response – A table top is proposed at the stated intersection, in which crosswalks will be provided on both the east and west sides.

- **Barrier** - School bus parking needed, yet at same time poor visibility for motorists.

Response – A dedicated bus-only loading and drop-off area is identified on the south side of Elm Avenue continuing to a portion of the west side of Connecticut Street in front of Imperial Beach Charter School and Friendship School at the intersection of Elm Avenue and Connecticut. Visibility will be improved through a shift of the eastbound lane on Elm Avenue and a shift of the northbound lane on Connecticut Street, as well as the inclusion of a stop sign before the north-to-south, west end crosswalk at Connecticut and improved striping.

2. POTENTIAL FOR REDUCING THE NUMBER AND/OR RATE OF PEDESTRIAN AND BICYCLIST FATALITIES AND INJURIES.

A. Describe the potential of the project to reduce pedestrian and/or bicycle injuries or fatalities.

A separation of bike path and sidewalk from vehicular traffic between 4th and 7th streets, and the addition of new striped crosswalks will reduce pedestrian and bicycle hazards. The project area has high pedestrian and bicycle traffic, especially during school start and end times. Visibility is increased by improving vehicle site lines through designated parking areas, dedicated loading zones, and removal of bushes. The inclusion of a tabletop and the narrowing of drive lanes will decrease vehicular speed, further reducing potential for fatalities of bicyclists and pedestrians. A Class III striped bike lane is also proposed from Seacoast Drive to 4th Street making the connection to the Imperial Beach Bikeway safer for cyclists.

B. Describe if/how your project will achieve any or all of the following:

- **Reduces speed or volume of motor vehicles** – Speed is reduced through narrowing lane widths and including a tabletop at the intersection of Elm Ave and 5th Street. Volume of motor vehicles is reduced by providing a safer and more accessible means of biking and walking, therefore promoting the switch from driving to active transport modes.
- **Improves sight distance and visibility** – Sight distance is improved through designated parking areas, dedicated loading zones outside the travel way, removal of bushes, and placement of stop signs.
- **Improves compliance with local traffic laws** – Drivers are forced to abide by the 25 mph speed limit in the school zone and residential street between 4th and 7th streets through the implementation of narrowed lanes and tabletop.
- **Eliminates behaviors that lead to collisions** – The addition of stop signs, crosswalks, and a separated bike lane and sidewalk all eliminate behaviors that lead to collisions. Vehicles will be required to stop more often and pay attention to the crosswalks. Dedicated bike lane and sidewalk promote bikers and walkers to remain off the street. On the west end of the project (Seacoast Drive to 4th Street), in which Class III bike

lanes are used, drivers are forced to share the road, further decreasing their speed and giving bicyclists the right-of-way.

- **Addresses inadequate traffic control devices** – Stop signs, street striping, and crosswalks will be added.
- **Addresses inadequate bicycle facilities, crosswalks or sidewalks** – A separate bike lane from 4th Street to 7th Street and a separate sidewalk are proposed through the use of a decorative feature between the bike lane and the road and between the bike lane and the sidewalk. Class III bike lane striping is included from Seacoast Drive to 4th Street. New crosswalks are proposed and all crosswalks will be restriped.

C. Describe the location’s history of events and the source(s) of data used.

According to Transportation Injury Mapping System (TIMS), the City of Imperial Beach is included in the “red zone” of number of bicycle collisions per year (260 - 4,674), is in the “red zone” of number of driving collisions per year (1,083 – 15,915), and is in the “red zone” of number of pedestrian collisions per year (260 - 4,666). Bicycle collisions and victims of collisions have steadily increased since 2007. See attached photos and descriptions of hazards in Section IX.

3. PUBLIC PARTICIPATION and PLANNING (0-15 POINTS)

A. Describe the community based public participation process that culminated in the project proposal.

A considerable amount of community outreach and public participation has been conducted with residents near the project site and schools, parents who have children attending one or more of the schools, and actual students of Mar Vista High School.

The following workshops/public meetings were conducted in partnership with Move San Diego that included the participation and input of students, parents, residents, Mar Vista High and Imperial Beach Charter representatives, the San Diego County Sheriff, the City of Imperial Beach and other stakeholders to identify problematic pedestrian and cycling issues, potential solutions and prioritization of problems identified.

- February 27, 2012 at Mar Vista High – Five workshops were conducted during school with 77 high school students attending over a two-day period.
- February 28, 2012 at Mar Vista High – see above
- March 1, 2012 at Imperial Beach School – 16 residents/parents attended and San Diego County Sheriff
- April 26, 2012 at Imperial Beach School – 12 residents/parents attended and San Diego County Sherriff staff

The culmination of these workshops was the development of a Safe Route to Schools plan for various schools in the city. This plan was based on a non-infrastructure program but the workshops helped identify infrastructure barriers at Mar Vista High and Imperial Beach Charter schools.

The following workshops/public meetings were conducted to gather feedback and input on potential engineering improvements on Elm Avenue:

- July 23, 2013 at South Bay Union District (SBUD) Education Center – 14 residents/parents attended
- August 13, 2013 at SBUD Ed Center – 20 residents/parents attended
- August 27, 2013 at SBUD Ed Center – 21 residents/parents attended
- September 17, 2013, at SBUD Ed Center – 18 residents/parents attended
- April 15, 2014 at SBUD Ed Center – 9 residents attended

In addition, a public presentation was made to the City of Imperial Beach City Council on April 16, 2014.

The following outreach methods were used to engage parents and encourage participation in the workshops: flyers were sent home with students, phone calls, emails, posters, school marquee announcements and phone calls through the school's edconnect. Door hangers and emails were used to engage and encourage nearby residents to attend. A summary was created for each school as a result of workshops. The City of Imperial Beach, Mar Vista High's and Imperial Beach Charter's principals, and Walk San Diego responded to barriers and/or issues identified by the community.

A significant outreach effort was conducted in May 2012 to encourage students to participate in Walk to School Day; the event was received well and had excellent participation, due to Elm Avenue being closed to vehicular traffic, making it safer for students to bike to school without encountering the various problems and obstacles normally encountered on a daily basis. A written and focus group survey was conducted after the event. The majority of parents surveyed reported they would bike with or allow their children to bike to/from school if better bicycle infrastructure (e.g. bike lanes) were available and if bicycle racks were available.

B. Describe the local participation process that resulted in the identification and prioritization of the project:

The February 27 and 28 student workshops included walk audits around the schools' streets. For all other workshops, City staff was present to listen to residents' concerns and take note of infrastructure issues that they witnessed. Workshops were provided on school campuses in both Spanish and English, as needed. A 'Walk Audit Walkability' presentation was provided to show attendees the barriers to a walkable community and illustrated how various physical improvements can both encourage walking and enhance pedestrian safety. At each workshop, a vote was taken for participants to identify which concerns were of most concern to them. These votes were used to prioritize the urgency of the identified issues.

C. Is the project cost over \$1 Million? Yes

Is the Project prioritized in a plan adopted by the city or county? No

This project strives to resolve Safe Route to School issues for Mar Vista High and Imperial Beach Charter schools that were identified in the City's SRTS plan. This plan was based on a non-infrastructure program but public involvement efforts to develop the SRTS plan identified various infrastructure barriers at these two schools.

4. COST EFFECTIVENESS (0-10 POINTS)

A. Describe the alternatives that were considered.

The alternatives considered were the following:

- The existing condition with the addition of both a tabletop at 5th Street and Elm Avenue and a storm drain system in front of the high school to improve the drainage in front of the schools and especially at the intersection of Elm Avenue and 5th Street.
- A one-way option between 4th Street and Connecticut Avenue
- The proposed option with sidewalk and bike lane improvements, street improvements, drainage improvements, and aesthetic improvements.

The first alternative requires a lower total project cost (only including costs for construction of the storm drain and tabletop) but does not include as many improvements in front of the schools as the third alternative. The first alternative increases the safety for the bicyclists and pedestrians by slowing down cars, and it improves the drainage on Elm Avenue. The second option, one way, received very negative reviews from residents along Elm Avenue and was dismissed as a viable option.

The proposed option was developed after 10 meetings with the community. It has been refined to meet the needs of the stakeholders. This alternative requires a higher total project cost (totaling \$1,459,000) than the first and second alternatives, but the benefits outweigh the cost. It increases safety of pedestrians and bicyclists by separating them from the street. Lanes are narrowed and a tabletop added to slow down traffic. Drainage is mitigated by repaving the road, adding a tabletop, and adding a storm drain system which increases the safety of drivers and people crossing the street during rain events. Measures were taken to identify ways to improve safety using the new infrastructure to load and drop-off students (a dedicated loading zone out of the travel way) as well as providing dedicated bus-only loading and drop-off locations.

B. Calculate the ratio of the benefits of the project.

“Evaluating Active Transport Benefits and Costs” (2014) by Todd Litman was used to quantify the benefits of the Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Project. Assumptions made include:

- Urban peak trip, because travel to and from schools typically occurs during peak travel periods.

- Total costs per day were found by doubling the per mile total cost, assuming people travel on the 0.81-mile stretch twice in one day.
- Where vehicle miles were used, it was assumed that the number of cars that will switch from driving to active modes of transport is directly related to the percent increase in active transport users from the educational facilities.

Increased health benefits of walking and cycling are quantified mostly on a USD per mile basis. A general breakdown of the quantified benefits is shown in Table 2 below, and a detailed breakdown, including increase in number of student/employee user benefits, can be found in the attached estimate titled Quantifying Benefits.

Table 2. Quantifying Benefits

Item No.	Benefit	Total Cost/day
1	HEALTH BENEFITS FROM INCREASED WALKING	\$559.48
2	HEALTH BENEFITS FROM INCREASED CYCLING	\$201.82
3	ROADWAY COST SAVINGS	\$11.67
4	DECREASED PARKING	\$156.00
5	DECREASED PETROLEUM CONSUMPTION	\$9.34
6	CONGESTION REDUCTION	\$0.03
7	VEHICLE COST SAVINGS	\$46.69
8	AIR POLLUTION REDUCTION	\$11.67
9	NOISE POLLUTION REDUCTION	\$7.00
10	ENERGY CONSERVATION	\$9.34
11	TRAFFIC SAFETY BENEFITS	\$9.34
12	GREENHOUSE GAS EMISSIONS	\$5.16
	Total Benefits/day	\$1,030
	Total Benefits/year¹	\$185,400
	Total Benefits²	\$1,297,800

¹Total benefits/year are based solely on the 180 day school year of Imperial Beach Charter School and Mar Vista High School, weekdays only. Benefits will be higher if considering the calendar year for reference to work commuters.

²Total Benefits were calculated over 7 years, which is the approximate life of the project before maintenance is necessary.

$$\frac{\text{Benefit*}}{\text{Total Project Cost}} = 0.89$$

$$\frac{\text{Benefit*}}{\text{Program Funds Requested}} = 1.83$$

5. IMPROVED PUBLIC HEALTH (0-10 points)

A. Describe how the project will improve public health.

The Project will significantly benefit public health by increasing regular physical activity among students and some parents and reducing automobile congestion and pollution in the community. School students and parents who accompany their elementary-aged children to school are the top targeted population for this project, followed by the neighboring community. It is estimated that an increase of 20% of students from Mar Vista High will use active transportation modes and a 50% increase is expected at Imperial Beach Charter School. Many parents of elementary-aged students will also use active transportation modes to and from school once the project is complete. In addition, community residents will be able to more safely and easily use the Elm Avenue route to access the beach and Tijuana Estuary, the Imperial Beach Bicycle Network (Class III route), bus transit stops on Connecticut at Imperial Beach Boulevard and on 7th street at Palm Avenue (see attached Vicinity Map) and the Imperial Beach Boys and Girls Club.

The South Bay community, where the project is located, is within a health at-risk area, according to the County of San Diego Health and Human Services Agency, which reports that chronic diseases accounted for 59% of all deaths in the South Region in 2011 (surpassing infectious diseases and injuries). This number reflects a significant change in diet habits, physical activity levels, and tobacco use. Additionally, in a nationally representative survey in 2011 (www.cdc.gov/healthyyouth/physicalactivity/facts), only 29% of high school students participated in at least 60 minutes per day of physical activity and 77% of children aged 9–13 years participated in free-time physical activity during the previous 7 days before the survey. The City of Imperial Beach's Elm Avenue project would improve these numbers significantly for the youth in the project area.

By increasing regular physical activity, the project will help reduce the risk of developing obesity and chronic diseases, such as diabetes, asthma, cardiovascular disease, arthritis, high blood pressure, and cancer, build and maintain healthy bones and muscles, reduce feelings of depression and anxiety and promote psychological well-being, and may help improve students' academic performance (benefits of regular physical activity according to the Center for Disease Control and Prevention).

According to the County of San Diego HHSA, in 2011 among the South Region Subregional Area, South Bay (where the City of Imperial Beach is located) had the highest percentage of deaths due to chronic diseases (cancer, heart disease & stroke, diabetes, lung disease as a result of tobacco use, lack of physical activity, poor nutrition). According to the American Lung Association's 2014 State of the Air report, San Diego County earned failing "grades" for ozone and particle pollution.

The following health behaviors and related health factors are **higher** in the community of the proposed project than the San Diego County average (www.SDHealthStatistics.com, 2011):

- 65.6% are overweight/obese (18+) (County average is 58.5%)
- 31.5% have been diagnosed with high blood pressure (ages 18+) (County average is 25.8%)
- 11% have been diagnosed with diabetes (ages 18+) (County average is 7.8%)
- 59% of all deaths in the South Region caused by cancer, heart disease and stroke, diabetes, and lung disease (County average is 54%)
- 34.1% are uninsured all or part of the year (ages 18-64) (County average is 34.1%)

Additional relevant South Region health information from the County of San Diego HHSA

- TOBACCO USE - In 2011, 1 out of 10 of South Region teens and adults were current smokers.
- LACK OF PHYSICAL ACTIVITY - In 2011, 6 out of 10 South Region children engaged in fewer than five days of physical activity, lasting at least one hour, per week.
- CANCER - In 2011, cancer was the leading cause of death in the South Region.
- DIABETES - In 2011, 11.0% of South Region adults had ever been diagnosed with diabetes (higher than county which is 7.8%).

6. **BENEFIT TO DISADVANTAGED COMMUNITIES (0-10 points)**

A. I. Is the project located in a disadvantaged community? **Yes**

II. Does the project significantly benefit a disadvantaged community? **Yes**

a. Which criteria does the project meet? (Answer all that apply)

- o Median household income for the community benefited by the project: **\$46,975**

B. Describe how the project demonstrates a clear benefit to a disadvantaged community.

Combined, the four schools on the project route have more than 2,700 students in grades K through 12 enrolled and accessing their schools on a daily basis. The schools and the project location are located in a disadvantaged community. **One hundred percent** of the funding of the Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project will benefit the Imperial Beach community at large (a disadvantaged community) by providing a safe access to the educational facilities, the City of Imperial Beach's Bicycle Transportation Plan as a Class III Bicycle Network, and the bus system. Because the schools are in a disadvantaged community, many of the students attending the schools often have parents/guardians who have jobs that have atypical hours/shifts. This makes it more important to provide students a safe way to get to school and to get home after school hours. This community has many poor health factors that are higher than the San Diego County average, including obesity, high blood pressure, and diabetes. The project will benefit both the greater Imperial Beach community and the school-aged children attending the four schools adjacent to the project. It will increase pedestrian and bicyclist safety, making active transportation more inviting, reduce traffic congestion in school zones, and increase the health of the community by increasing exercise levels, reducing obesity and improving air quality.

7. USE OF CALIFORNIA CONSERVATION CORPS (CCC) OR A CERTIFIED COMMUNITY

CONSERVATION CORPS *(0 to -5 points)*

The applicant has sent the following information to the CCC and CALCC prior to application submittal to Caltrans: Project Description, Detailed Estimate, Project Schedule, Project Map, Preliminary Plan.

- A. The applicant has coordinated with the CCC to identify how a state conservation corps can be a partner of the project . **Yes**

Name, e-mail, and phone # of the person contacted and the submittal date:

Virginia Clark, Virginia.clark@ccc.ca.gov, (916) 341-3147. May 8, 2014

Trish Simpson, trish.simpson@ccc.ca.gov. May 8, 2104

B. The applicant has coordinated with a representative from the California Association of Local Conservation Corps (CALCC) to identify how a certified community conservation corps can be a partner of the project .**Yes**

Name, e-mail, and phone # of the person contacted and the submittal date:

Cynthia Vitale, calocalcorps@gmail.com, (916) 558-1516. May 8, 2014

C. The applicant intends to utilize the CCC or a certified community conservation corps on all items where participation is indicated? **Yes**

I have coordinated with a representative of the CCC; and the following are project items that they are qualified to partner on: **Received response from Melanie Wallace on 5/20/14 that the CCC is unable to participate in this project.**

I have coordinated with a representative of the CALCC; and the following are project items that they are qualified to partner on: **Cynthia Vitale with the CALCC provided email notification on 5/15/14 that the Urban Corps San Diego would like to partner on this project on the following aspects: Sidewalks, curb & gutter, ADA ramps, landscaping and installation of bike racks.**

8. **APPLICANT'S PERFORMANCE ON PAST GRANTS** (0 to -10 points)

Not applicable.

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised July 2013)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	5/20/14
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
11				SANDAG		
County	Route/Corridor	PM Bk	PM Ahd	Project Sponsor/Lead Agency		
SD	N/A	N/A	N/A	City of Imperial Beach		
				MPO	Element	
				SANDAG	Local Assistance	
Project Manager/Contact		Phone		E-mail Address		
Hank Levien		(619) 628-1369		hlevien@cityofib.org		
Project Title						
Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project						
Location, Project Limits, Description, Scope of Work						<input checked="" type="checkbox"/> See page 2
The project location and limits are: City of Imperial Beach, Elm Avenue, between Seacoast Drive and 7th Street, and additional improvements on Connecticut Avenue. Project Description: The Project is located on a residential collector street containing single- and multi-family homes and a large cluster of educational facilities on the south side of Elm Avenue between 4th Street and Connecticut Avenue. Safe walking/bike access is needed for the various and diverse users, including students, parents, teachers, school employees, district employees and residents of the disadvantaged community to connect school facilities						
<input checked="" type="checkbox"/> Includes ADA Improvements			<input checked="" type="checkbox"/> Includes Bike/Ped Improvements			
Component	Implementing Agency					
PA&ED	City of Imperial Beach					
PS&E	City of Imperial Beach					
Right of Way	City of Imperial Beach					
Construction	City of Imperial Beach					
Purpose and Need						<input checked="" type="checkbox"/> See page 2
The purpose: 1. Promote walking and bicycling to school safely 2. Routinely increase the number of students using active transportation modes to school 3. Improve health 4. Improve personal and traffic safety 5. Heighten awareness about the benefits of active transportation 6. Decrease school-related vehicle trips 7. Improve air quality and reduce traffic congestion at the schools 8. Provide active transportation access connection to existing bikeway facilities. The needs of the project were identified through a series of workshops and open house meetings with various stakeholders, including students, parents, school administrators, County Sheriff staff, and County of San Diego's Health and Human Services Agency staff.						
Project Benefits						<input checked="" type="checkbox"/> See page 2
The benefits of this project are that a safe route will be provided for students, parents, neighbors, and the community to use along Elm Avenue between Seacoast Drive and 7th Street which will increase active transport and in turn reduce greenhouse gas emissions by 754 tons (calculated using the EPA Clean Energy Greenhouse Gas Equivalencies Calculator, assuming decrease in 144 cars) and increase public						
<input checked="" type="checkbox"/> Supports Sustainable Communities Strategy (SCS) Goals			<input checked="" type="checkbox"/> Reduces Greenhouse Gas Emissions			
Project Milestone						Proposed
Project Study Report Approved						
Begin Environmental (PA&ED) Phase						08/08/14
Circulate Draft Environmental Document				Document Type	CE/CE	09/01/14
Draft Project Report						11/10/14
End Environmental Phase (PA&ED Milestone)						10/15/14
Begin Design (PS&E) Phase						11/10/14
End Design Phase (Ready to List for Advertisement Milestone)						03/02/15
Begin Right of Way Phase						11/10/14
End Right of Way Phase (Right of Way Certification Milestone)						02/28/15
Begin Construction Phase (Contract Award Milestone)						04/15/15
End Construction Phase (Construction Contract Acceptance Milestone)						10/01/15
Begin Closeout Phase						10/02/15
End Closeout Phase (Closeout Report)						01/01/16

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised May 2013)

General Instructions

<input checked="" type="checkbox"/> New Project					Date:	5/20/14
District	EA	Project ID	PPNO	MPO ID	TCRP No.	
11				SANDAG		
Project Title						
Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project						
Additional Information						
<p>(Project Description/Scope of Work Continued) to the greater community using active transportation modes. As such, this project is designated an ATP Safe Route to School project. The Scope of Work to remedy and mitigate the above needs/problems includes the following for streetscape improvements on Elm Avenue between Seacoast Drive and 7th Streets and on Connecticut near the corner of Elm Avenue: Narrowed travel lanes between 4th and 7th Streets, Tabletop at intersection of Elm Ave. and 5th Street, 6-to 8-foot wide asphalt bike lane separated from sidewalk and road (Class I in school area), Striping of Class III bike lane from 4th to Seacoast Drive connecting to the City's Class III Imperial Beach Bicycle Network, 6- to 8-foot wide concrete sidewalk separated from the bike path and road, Dedicated student drop off location separate from vehicular traffic, Dedicated bus-only loading location separate from vehicular traffic, Stormwater best management practices (BMPs), Drainage improvements, Aesthetic improvements, New bike racks.</p> <p>(Purpose and Need Continued) The needs: 1. No designated bike lanes or safe place to bike, 2. Pedestrian sidewalk in front of education cluster is too narrow (between 4th and 7th streets), 3. High vehicular speeds, 4. Crosswalks near education cluster are not easy to see, 5. Line of site problems due to parking in front of the school. Motorists cannot see pedestrians, cyclists or oncoming traffic, 6. Drainage issues cause flooding near 5th Street, 7. No crosswalk on the east side of 5th street at Elm Avenue and many students cross on that side, 8. School bus parking on street creates poor visibility for motorists and line of site visibility for walkers/bikers, 9. Not enough bike racks/corrals at schools, 10. No connection to bike/walk-friendly network to the greater City area.</p> <p>(Project Benefits Continued) health. This improved route will also connect the community safely to the Imperial Beach Bicycle Network, Boys and Girls Club, and bus transit, further promoting decrease in personal vehicular use. The quantified benefits of this project equate to \$185,400 per year.</p> <p>SCS Goals: The Sustainable Communities Strategy identified in the SANDAG 2050 Regional Transportation Plan is to, "use existing and reasonably expected funding to achieve the region's transportation and housing needs, while also respecting, and enhancing our natural resources". The City of Imperial Beach's Safe Routes to Schools project on Elm Ave. meets these identified strategies by adding infrastructure that will help the community live more sustainably and investing invest in a transportation improvements that "provides residents and workers with transportation options that reduce GHG emissions, and implement the plan through incentives and collaboration."</p>						

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PROJECT PROGRAMMING REQUEST

DTP-0001 (Revised July 2013)

Date: 5/20/14

District	County	Route	EA	Project ID	PPNO	TCRP No.
11	SD	N/A				
Project Title: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project						

Proposed Total Project Cost (\$1,000s)									Notes
Component:	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	
E&P (PA&ED)									
PS&E		110	110					220	
R/W SUP (CT)									
CON SUP (CT)									
R/W		6						6	
CON			1,233					1,233	
TOTAL		116	1,343					1,459	Non-Infrastructure included in CON

Fund No. 1:	ATP Funds Requested								Program Code
Proposed Funding (\$1,000s)									
Component:	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	Funding Agency
E&P (PA&ED)									State
PS&E		110	110					220	Non-Infrastructure included in CON
R/W SUP (CT)									
CON SUP (CT)									
R/W		6						6	
CON			483					483	
TOTAL		116	593					709	

Fund No. 2:	Allocated Project Funds for the City								Program Code
Proposed Funding (\$1,000s)									
Component:	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	Funding Agency
E&P (PA&ED)									Gas Tax, City of Imperial Beach
PS&E									Also Transnet and Sewer Enterprise Fund, City of IB.
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON			750					750	
TOTAL			750					750	

Fund No. 3:									Program Code
Proposed Funding (\$1,000s)									
Component:	Prior	14/15	15/16	16/17	17/18	18/19	19/20+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

VI. ADDITIONAL INFORMATION
Only fill in those fields that are applicable to your project

FUNDING SUMMARY

ATP Funds being requested by Phase (to the nearest \$1000)	Amount	
PE Phase (includes PA&ED and PS&E)	\$	220,000
Right-of-Way Phase	\$	6,000
Construction Phase-Infrastructure	\$	428,000
Construction Phase-Non-infrastructure	\$	55,000
Total for ALL Phases	\$	709,000

All Non-ATP fund types on this project* (to the nearest \$1000)	Amount	
ALLOCATED FUNDS BY CITY -- PAVEMENT REPAIR	\$	750,000
	\$	
	\$	
	\$	
	\$	
	\$	

*Must indicate which funds are matching

Total Project Cost	\$	1,459,000
Project is Fully Funded	No	

ATP Work Specific Funding Breakdown (to the nearest \$1000)	Amount	
Request for funding a Plan	\$	0
Request for Safe Routes to Schools Infrastructure work	\$	654,000
Request for Safe Routes to Schools Non-Infrastructure work	\$	55,000
Request for other Non-Infrastructure work (non-SRTS)	\$	0
Request for Recreational Trails work	\$	0

ALLOCATION/AUTHORIZATION REQUESTS SCHEDULE

	Proposed Allocation Date	Proposed Authorization (E-76) Date
PA&ED or E&P		
PS&E	10/08/2014	11/10/2014
Right-of-Way	10/08/2014	11/10/2014
Construction	10/08/2014	02/02/2015

All project costs MUST be accounted for on this form, including elements of the overall project that will be, or have been funded by other sources.

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

VII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: Hank Levien
Name: Hank Levien
Title: Public Works Director

Date: May 20, 2014
Phone: (619) 678-1369
e-mail: hlevien@cityofib.org

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: Hank Levien
Name: Hank Levien
Title: Public Works Director

Date: May 20, 2014
Phone: (619) 678-1369
e-mail: hlevien@cityofib.org

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

Person to contact for questions:

Name: _____
Title: _____

Phone: _____
e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____
Name: Not applicable
Title: _____

Date: _____
Phone: _____
e-mail: _____

*Contact the District Local Assistance Engineer (DLAE) for the project to get Caltrans Traffic Ops contact information. DLAE contact information can be found at <http://www.dot.ca.gov/hq/LocalPrograms/dlae.htm>

Project name: Elm Avenue Improvements

VIII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list.

Signature: 
Name: Manuel Rubio
Title: Director, Grants and Communications

Date: May 06, 2014
Phone: 619-691-5578
e-mail: Manuel.Rubio@sweetwaterschools.org

Person to contact for questions:

Name: _____
Title: _____

Phone: _____
e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____
Name: _____
Title: _____

Date: _____
Phone: _____
e-mail: _____

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Project name: Elm Avenue Improvements

VIII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____ Date: _____
Name: _____ Phone: _____
Title: _____ e-mail: _____

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____ Date: _____
Name: _____ Phone: _____
Title: _____ e-mail: _____

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list.

Signature:  Date: 5/6/14
Name: ABDOLLAH SAADAT Phone: 619-628-1679
Title: Assistant Superintendent e-mail: asaadat@sbusd.org

Person to contact for questions:

Name: _____ Phone: _____
Title: _____ e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____ Date: _____
Name: _____ Phone: _____
Title: _____ e-mail: _____

*Contact the District Local Assistance Engineer (DLAE) for the project to get Caltrans Traffic Ops contact information. DLAE contact information can be found at <http://www.dot.ca.gov/hq/LocalPrograms/dlae.htm>

Project name: Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

VIII. APPLICATION SIGNATURES

Applicant: The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____
Name: Hank Levien
Title: Public Works Director

Date: _____
Phone: (619) 628-1369
e-mail: hlevien@cityofib.org

Local Agency Official (City Engineer or Public Works Director): The undersigned affirms that the statements contained in the application package are true and complete to the best of their knowledge.

Signature: _____
Name: Hank Levien
Title: Public Works Director

Date: _____
Phone: (619) 628-1369
e-mail: hlevien@cityofib.org

School Official: The undersigned affirms that the school(s) benefited by this application is not on a school closure list

Signature: *Diana Lynn*
Name: Diana Lynn
Title: Principal

Date: May 16, 2014
Phone: (619) 628-5645
e-mail: dilynn@sdcoe.net

Person to contact for questions:

Name: _____
Title: _____

Phone: _____
e-mail: _____

Caltrans District Traffic Operations Office Approval*

If the application's project proposes improvements on a freeway or state highway that affects the safety or operations of the facility, it is required that the proposed improvements be reviewed by the district traffic operations office and either a letter of support or acknowledgement from the traffic operations office be attached () or the signature of the traffic personnel be secured below.

Signature: _____
Name: Not applicable
Title: _____

Date: _____
Phone: _____
e-mail: _____

*Contact the District Local Assistance Engineer (DLAE) for the project to get Caltrans Traffic Ops contact information. DLAE contact information can be found at <http://www.dot.ca.gov/hq/LocalPrograms/dlae.htm>

Project name:

Elm Avenue Traffic, Pedestrian and Cycling Safety and Mobility Improvement Project

VIII. ADDITIONAL APPLICATION ATTACHMENTS

Check all attachments included with this application.

- Vicinity/Location Map- **REQUIRED for all IF Projects**
 - North Arrow
 - Label street names and highway route numbers
 - Scale

- Photos and/or Video of Existing Location- **REQUIRED for all IF Projects**
 - Minimum of one labeled color photo of the existing project location
 - Minimum photo size 3 x 5 inches
 - Optional video and/or time-lapse

- Preliminary Plans- **REQUIRED for Construction phase only**
 - Must include a north arrow
 - Label the scale of the drawing
 - Typical Cross sections where applicable with property or right-of-way lines
 - Label street names, highway route numbers and easements

- Detailed Engineer's Estimate- **REQUIRED for Construction phase only**
 - Estimate must be true and accurate. Applicant is responsible for verifying costs prior to submittal
 - Must show a breakdown of all bid items by unit and cost. Lump Sum may only be used per industry standards
 - Must identify all items that ATP will be funding
 - Contingency is limited to 10% of funds being requested
 - Evaluation required under the ATP guidelines is not a reimbursable item

- Documentation of the partnering maintenance agreement- Required with the application if an entity, other than the applicant, is going to assume responsibility for the operation and maintenance of the facility

- Documentation of the partnering implementation agreement-Required with the application if an entity, other than the applicant, is going to implement the project.

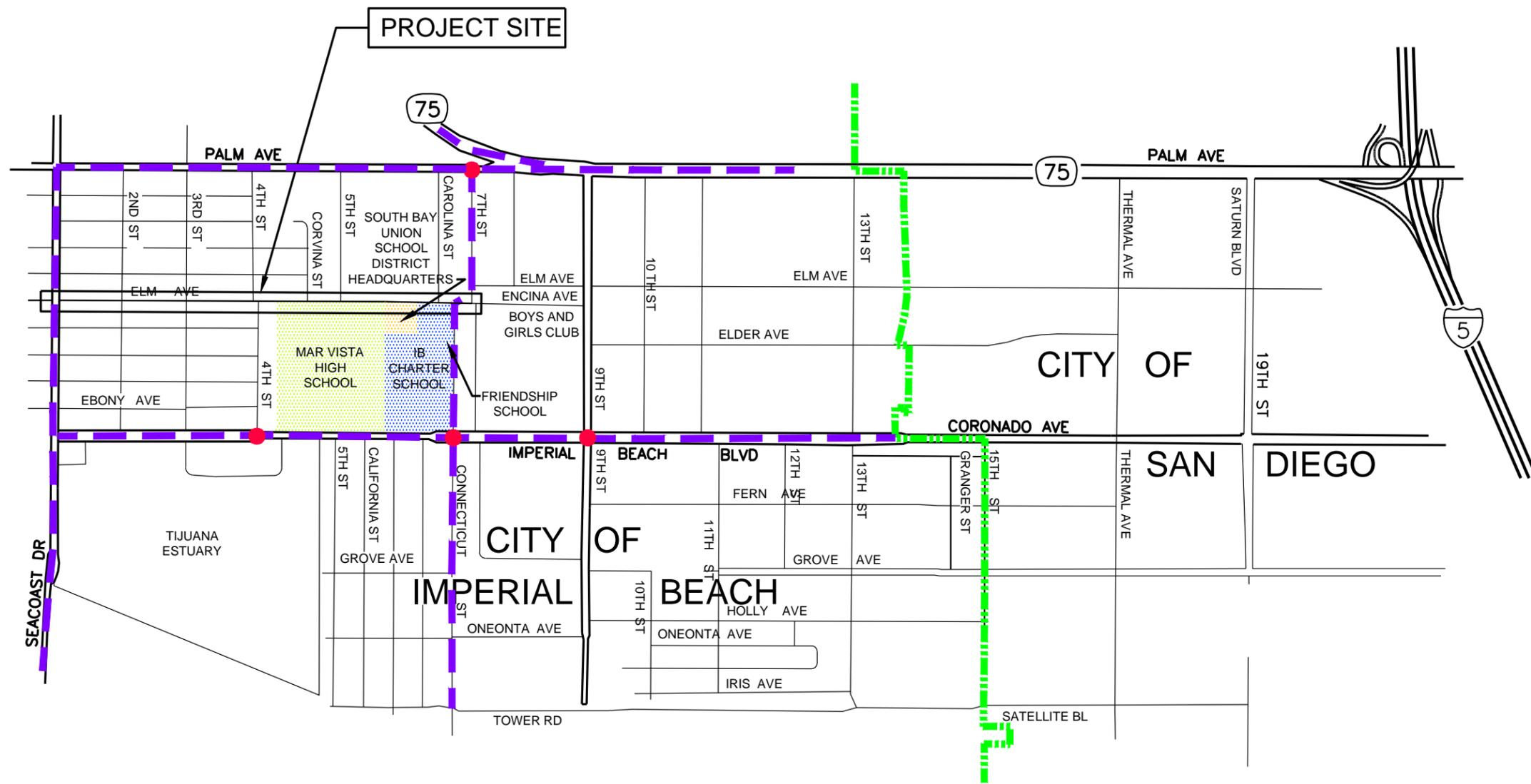
- Letters of Support from Caltrans (Required for projects on the State Highway System(SHS))

- Digital copy of or an online link to an approved plan (bicycle, pedestrian, safe routes to school, active transportation, general, recreation, trails, city/county or regional master plan(s), technical studies, and/or environmental studies (with environmental commitment record or list of mitigation measures), if applicable. Include/highlight portions that are applicable to the proposed project.

- Documentation of the public participation process (required)

- Letter of Support from impacted school- when the school isn't the applicant or partner on the application (required)

- Additional documentation, letters of support, etc (optional)



LEGEND

- BUS STOP
- - - BIKE PATH
- - - CITY LINE

**ELM AVE IMPROVEMENT PROJECT
VICINITY MAP**



ATKINS

3570 Carmel Mountain Rd
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San Diego, CA 92130
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Fax: +1 (858) 259-0741
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Photos and Descriptions of Existing Location



Vehicles are blocking and parking in front of other vehicles preventing them from parking or leaving. Photo is taken in front of Mar Vista High School, looking east.



Vehicles are blocking and parking in front of other vehicles preventing them from parking or leaving. Children are not crossing the street at crosswalks. Photo is taken in front of Mar Vista High School, looking southwest.

Photos and Descriptions of Existing Location



Vehicles are blocking and parking in front of other vehicles preventing them from parking or leaving. Children are not crossing the street at crosswalks, and they are running into the street. Photo is taken in front of Mar Vista High School, looking west.



Sidewalks are congested and bushes on sidewalks impede pedestrians. This tends to lead to children walking in the street.

Photos and Descriptions of Existing Location



There are no bike lanes so children are riding their bikes through the parking lots and in the streets. There is no designated area for loading/drop off of students.



Sidewalks are congested and bushes on sidewalks impede pedestrians. This tends to lead to children walking in the street.

Photos and Descriptions of Existing Location



Children are not crossing at crosswalks and riding their bikes into the streets.



There are no bike lanes present. Children are riding their bikes in the streets.

Photos and Descriptions of Existing Location



There are no bike lanes present. Children are riding their bikes in the streets.



Children aren't crossing at the crosswalks.

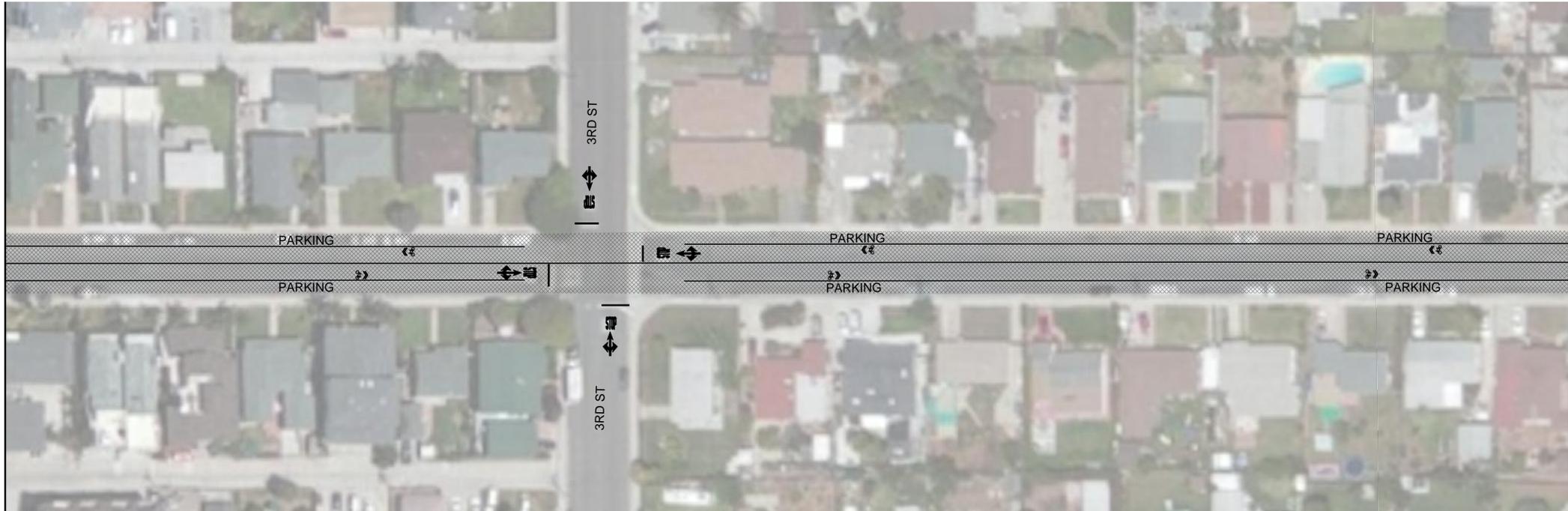
Photos and Descriptions of Existing Location



Children aren't crossing at the crosswalks.



SEE BELOW



SEE ABOVE

SEE SHEET 2

LEGEND	
	AC PAVEMENT
	ROAD SURFACE
	CONCRETE
	BIKE LANE
	CROSSWALK
	LOADING ZONE
	DECORATIVE FEATURE/BMP

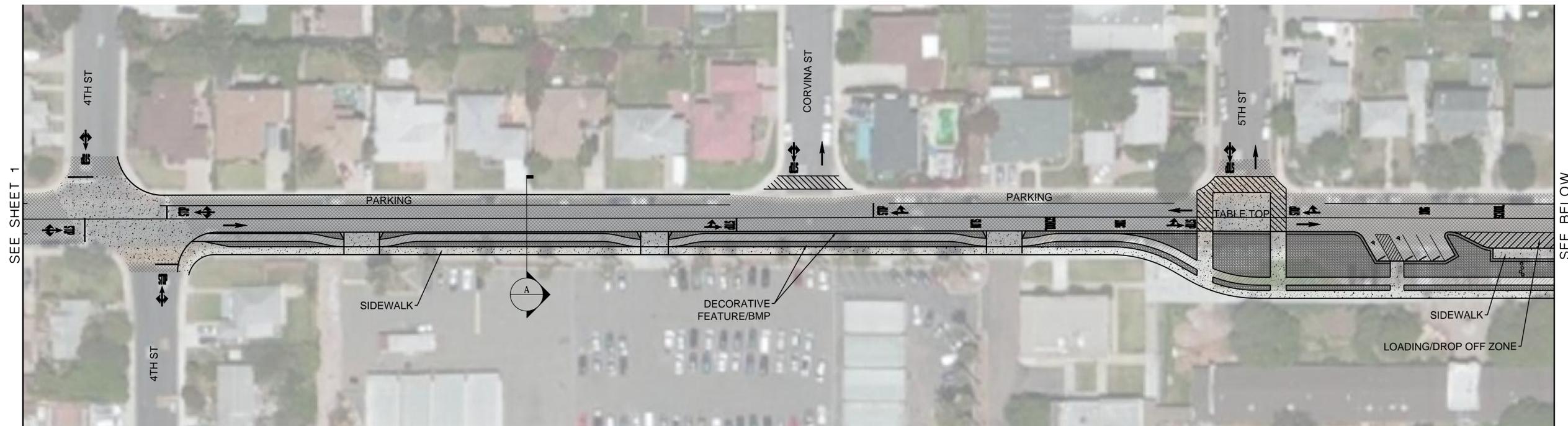


ELM AVE IMPROVEMENT PROJECT
 CONCEPT DESIGN OPTION
 SHEET 1

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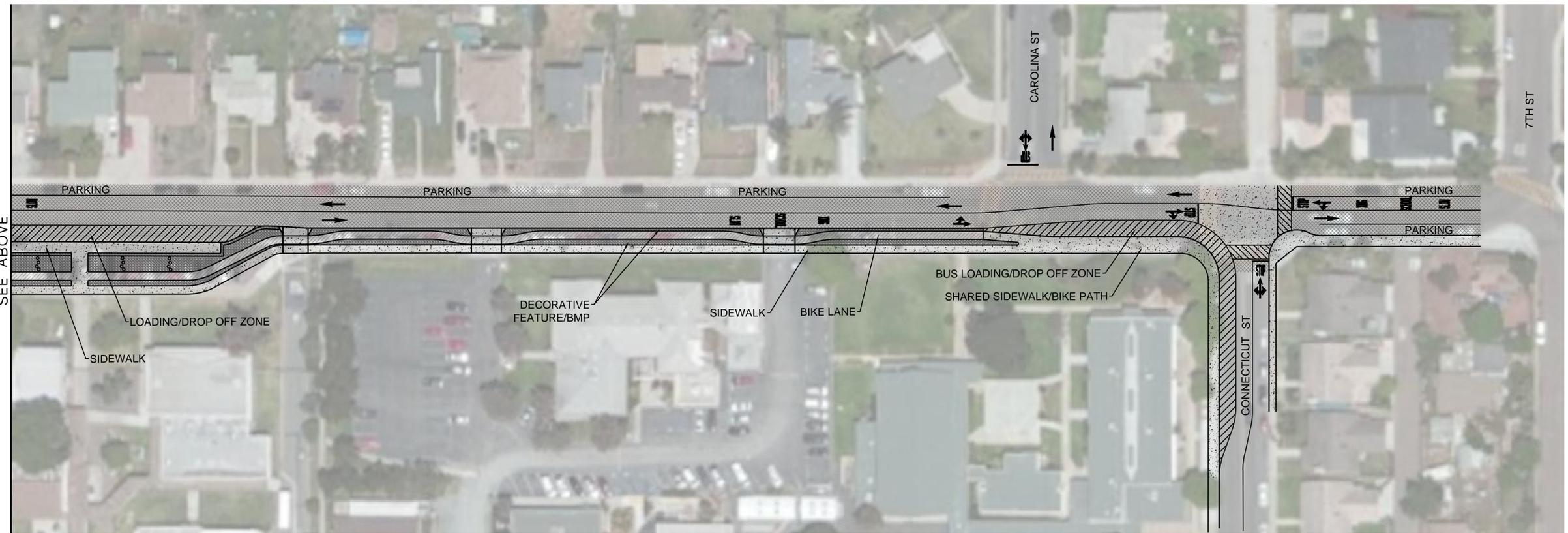
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SEE SHEET 1

SEE BELOW



SEE ABOVE

LEGEND	
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	BIKE LANE
	CROSSWALK
	LOADING ZONE
	DECORATIVE FEATURE/BMP



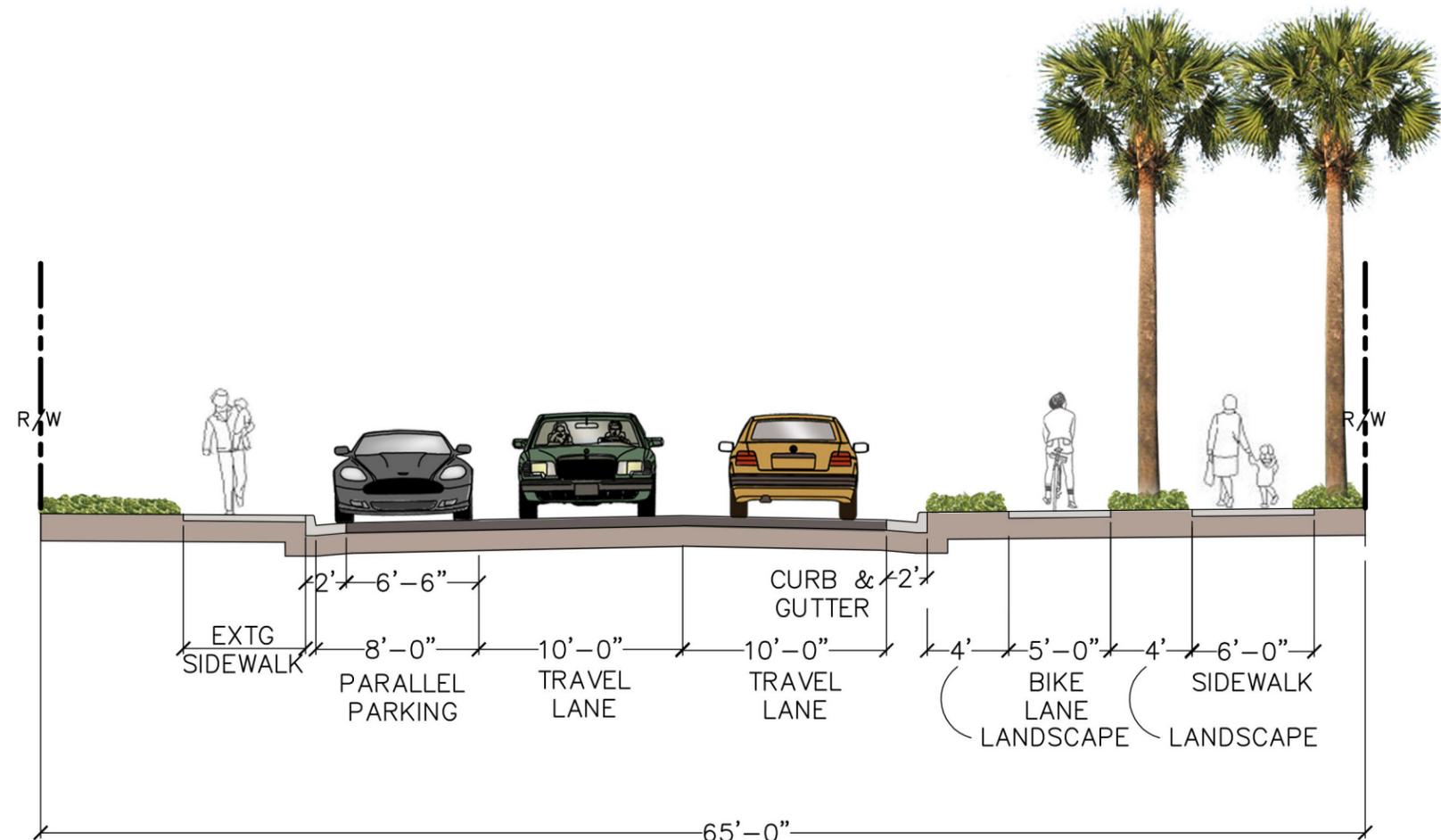
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* NOTE: ALL DIMENSIONS APPROXIMATE

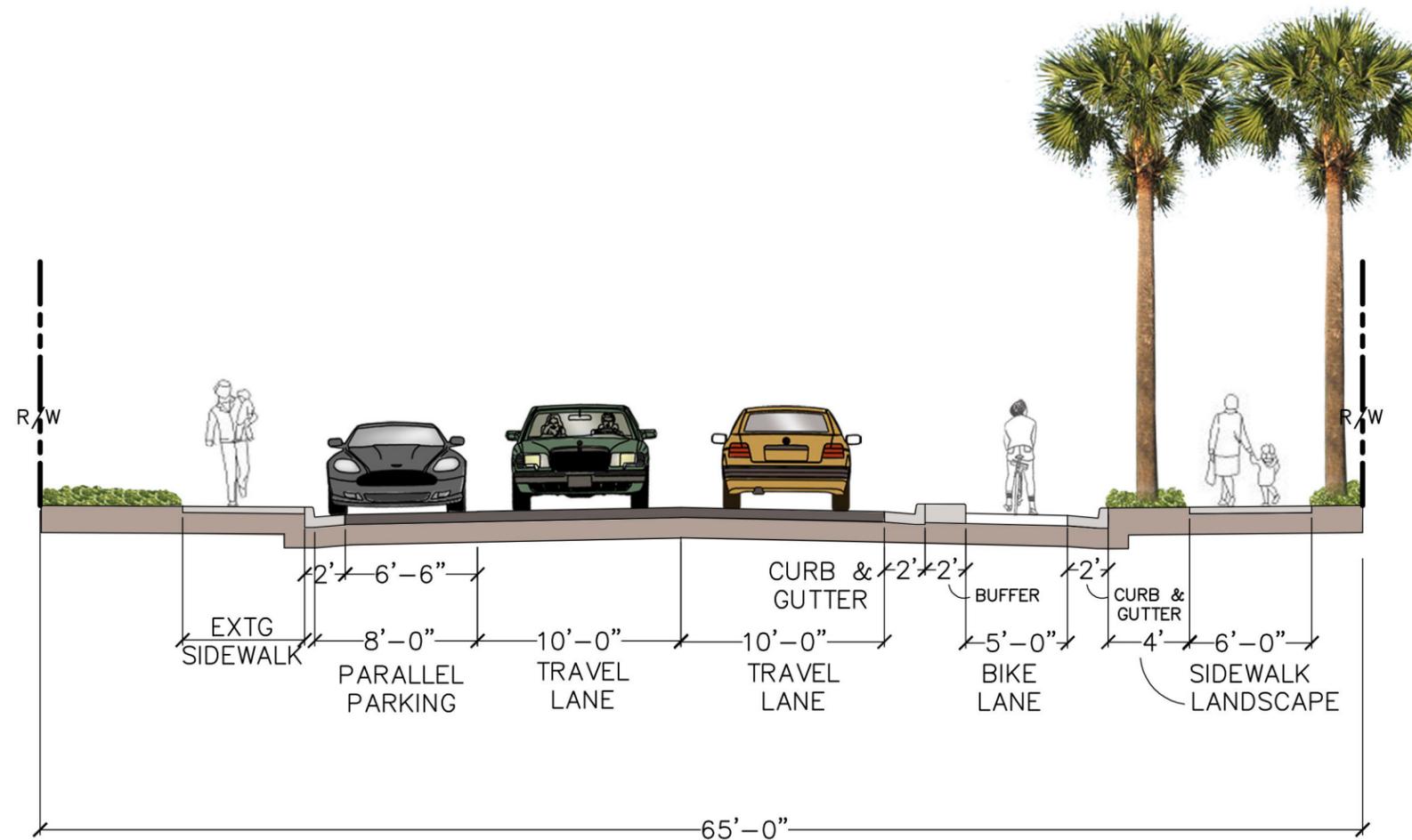
EVEVATED BIKE LANE OPTION

SCALE 1/8"=1'-0"

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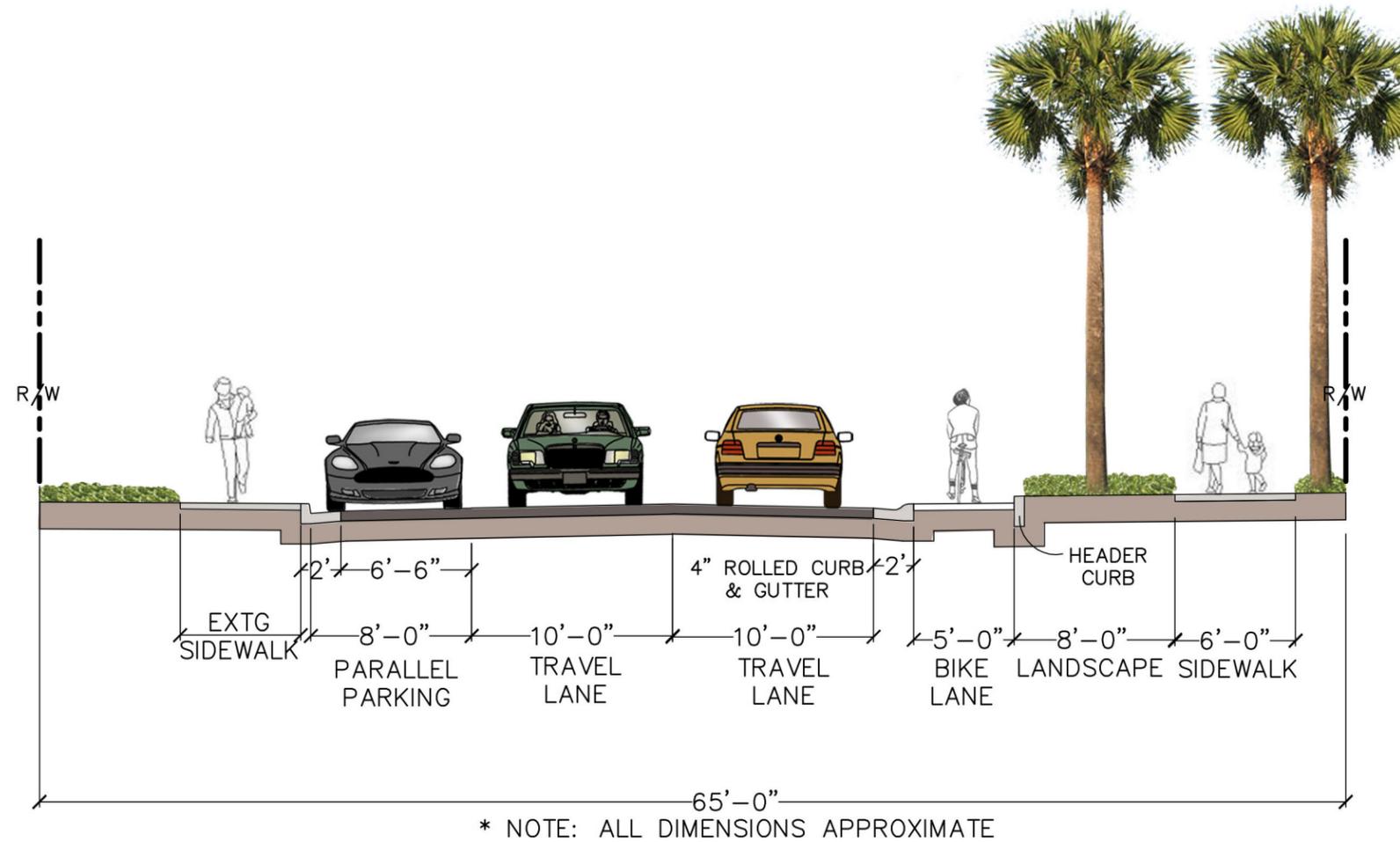
SEPARATED BIKE LANE OPTION

SCALE 1/8"=1'-0"

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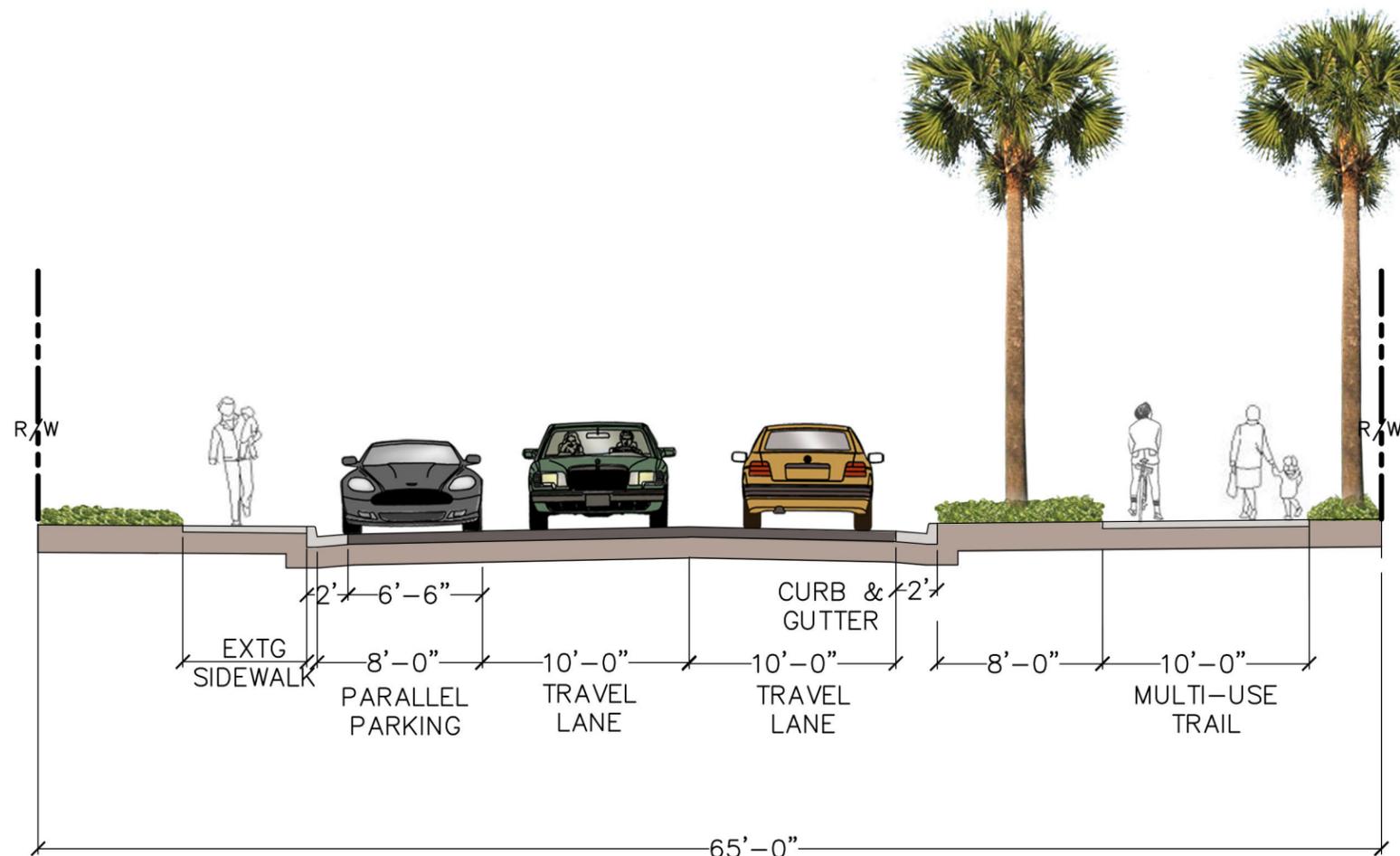
RAISED BIKE LANE OPTION

SCALE 1/8"=1'-0"

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MULTI-USE TRAIL OPTION

SCALE 1/8"=1'-0"

**ELM AVE IMPROVEMENT PROJECT
CONCEPT DESIGN OPTION**



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CITY OF IMPERIAL BEACH
ELM AVENUE TRAFFIC, PEDESTRIAN AND CYCLING SAFETY AND MOBILITY IMPROVEMENT PROJECT
OPINION OF PROBABLE CONSTRUCTION COSTS

ATP	Item No.	Item Description	Unit of Measure	Quantity	Unit Cost	Total Cost
DEMOLITION						
<input checked="" type="checkbox"/>	1	GRINDING 2" AC EXISTING ROADWAY	SF	134,500	\$0.30	\$40,350.00
	2	FULL DEPTH REMOVAL AC PAVEMENT (FUTURE ROAD AREA)	SF	11,330	\$3.45	\$39,088.50
<input checked="" type="checkbox"/>	3	FULL DEPTH REMOVAL AC PAVEMENT (PROPOSED SIDEWALK IMPROVEMENTS)	SF	25,000	\$3.45	\$86,250.00
<input checked="" type="checkbox"/>	4	REMOVE CONCRETE CURB AND GUTTER	LF	2,920	\$3.30	\$9,636.00
<input checked="" type="checkbox"/>	5	REMOVE SIDEWALK	SF	19,480	\$2.20	\$42,856.00
<input checked="" type="checkbox"/>	6	REMOVE DRIVEWAY	SF	920	\$2.50	\$2,300.00
<input checked="" type="checkbox"/>	7	REMOVE ALLEY APRON	SF	170	\$2.75	\$467.50
<input checked="" type="checkbox"/>	8	REMOVE CROSS-GUTTER	SF	1,820	\$2.75	\$5,005.00
IMPROVEMENT						
<input checked="" type="checkbox"/>	9	CONSTRUCTION SURVEY STAKING	LS	1	\$7,500.00	\$7,500.00
<input checked="" type="checkbox"/>	10	TRAFFIC CONTROL	LS	1	\$12,000.00	\$12,000.00
	11	2-INCH ASPHALT OVERLAY (ROAD SECTION)	SF	138,310	\$1.10	\$152,141.00
<input checked="" type="checkbox"/>	12	2-INCH ASPHALT CONCRETE PAVEMENT (BIKE PATH)	SF	9,550	\$2.40	\$22,920.00
<input checked="" type="checkbox"/>	13	CONCRETE ROAD SECTION	SF	10,590	\$10.00	\$105,900.00
<input checked="" type="checkbox"/>	14	CONCRETE CURB AND GUTTER	LF	2,940	\$18.00	\$52,920.00
<input checked="" type="checkbox"/>	15	CONCRETE SIDEWALK	SF	17,145	\$6.40	\$109,728.00
<input checked="" type="checkbox"/>	16	CONCRETE DRIVEWAY	SF	2,560	\$12.70	\$32,512.00
<input checked="" type="checkbox"/>	17	CURB RAMP	EA	26	\$2,070.00	\$53,820.00
<input checked="" type="checkbox"/>	18	ADJUST MANHOLE TO GRADE/CONCRETE COLLAR	EA	10	\$550.00	\$5,500.00
<input checked="" type="checkbox"/>	19	TRAFFIC STRIPING, LEGENDS, AND MARKERS	LS	1	\$20,000.00	\$20,000.00
<input checked="" type="checkbox"/>	20	RELOCATE/ REPLACE STREET SIGNS AND POSTS	EA	11	\$300.00	\$3,300.00
<input checked="" type="checkbox"/>	21	RELOCATE WATER METER/ METER BOX	EA	8	\$800.00	\$6,400.00
<input checked="" type="checkbox"/>	22	ADJUST VALVE COVER TO GRADE	EA	12	\$250.00	\$3,000.00
	23	18" RCP STORM DRAIN	LF	437	\$136.00	\$59,432.00
<input checked="" type="checkbox"/>	24	TYPE B STORM DRAIN CURB INLET	EA	4	\$7,930.00	\$31,720.00
	25	STORM DRAIN CLEANOUT	EA	4	\$5,850.00	\$23,400.00
<input checked="" type="checkbox"/>	26	BIKE RACKS	EA	2	\$800.00	\$1,600.00
<input checked="" type="checkbox"/>	27	HARDSCAPE/LANDSCAPE	SF	14,730	\$6.80	\$100,164.00

Subtotal ATP	\$755,850
Subtotal Non-ATP	\$274,060
Total Construction Costs	<u>\$1,029,910</u>



CITY OF IMPERIAL BEACH
ELM AVENUE TRAFFIC, PEDESTRIAN AND CYCLING SAFETY AND MOBILITY IMPROVEMENT PROJECT
OPINION OF PROBABLE PROJECT COSTS

Item No.	Item Description	Unit of Measure	Quantity	Unit Cost	Total Cost
1	PLANNING AND DESIGN	LS	1	\$200,000.00	\$200,000.00
2	PUBLIC OUTREACH	LS	1	\$50,000.00	\$50,000.00
3	RIGHT-OF-WAY	LS	1	\$5,000.00	\$5,000.00
4	CONSTRUCTION (ATP)	LS	1	\$755,850.00	\$755,850.00
5	CONSTRUCTION (NON-ATP)	LS	1	\$274,060.00	\$274,060.00
6	CONSTRUCTION MANAGEMENT	LS	1	\$41,196.00	\$41,196.00

Subtotal	\$1,326,110
10% Design Contingency	\$132,611
Total Project Costs	\$1,459,000

Non-ATP Costs:

Subtotal	\$274,060
10% Design Contingency	\$27,406
Total Non-ATP Costs	\$301,500

ATP Costs:

Subtotal	\$1,052,046
10% Design Contingency	\$105,205
Total ATP Costs	\$1,158,000



CITY OF IMPERIAL BEACH
ELM AVENUE TRAFFIC, PEDESTRIAN AND CYCLING SAFETY AND MOBILITY IMPROVEMENT PROJECT
QUANTIFYING BENEFITS

Item No.	Benefit	Unit of Measure	Quantity	Increase in students/employees OR Decrease in vehicles	Unit Cost	Total Cost/day
1	HEALTH BENEFITS FROM INCREASED WALKING	MILE	0.81	85	\$4.06	\$559.48
2	HEALTH BENEFITS FROM INCREASED CYCLING	MILE	0.81	59	\$2.11	\$201.82
3	ROADWAY COST SAVINGS	MILE	0.81	144	\$0.05	\$11.67
4	DECREASED PARKING	SPACES	26		\$6.00	\$156.00
5	DECREASED PETROLEUM CONSUMPTION	VEH-MILE	0.81	144	\$0.04	\$9.34
6	CONGESTION REDUCTION	MILE	0.81		\$0.02	\$0.03
7	VEHICLE COST SAVINGS	MILE/VEH	0.81	144	\$0.20	\$46.69
8	AIR POLLUTION REDUCTION	MILE/VEH	0.81	144	\$0.05	\$11.67
9	NOISE POLLUTION REDUCTION	MILE/VEH	0.81	144	\$0.03	\$7.00
10	ENERGY CONSERVATION	MILE/VEH	0.81	144	\$0.04	\$9.34
11	TRAFFIC SAFETY BENEFITS	MILE/VEH	0.81	144	\$0.04	\$9.34
12	GREENHOUSE GAS EMISSIONS	MILE/VEH	0.81	144	\$0.02	\$5.16

Total Benefits/day	\$1,030
Total Benefits/year	\$185,400
Total Benefits	\$1,297,800

Total benefits/Total Project cost =	0.89
Total benefits/Program Funds Requested =	1.83

	current total	current bike	current walk	inc bike	inc walk
IB Charter (50% inc)	1055	59	40	30	20
Mar Vista High (20% inc)	1732	139	312	28	63
Friendship (0% inc)	41	0	0	0	0
Sweetwater (0% inc)	45	0	0	0	0
School District (10% inc)	50	5	15	1	2

CITY OF IMPERIAL BEACH BICYCLE TRANSPORTATION PLAN

Final Draft: March 2009



Prepared by:



In Association with:





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Caltrans BTA Compliance

Bicycle Transportation Account - Code Section 891.2 Compliance

The Bicycle Transportation Account (BTA) funds projects that improve safety and convenience for bicycle commuters. To be eligible for BTA funds, the bikeway master plan must address items (a) through (k) of Section 891.2 of the California Streets and Highways Code. For reviewer convenience, code text and associated document sections are listed below.

(a) The established number of existing bicycle commuters in the plan area and the estimated increase in the number of bicycle commuters resulting from implementation of the plan.

The established number of bicycle commuters in the plan area is 216. The estimated increase in the number of bicycle commuters resulting from implementation of this plan is five percent, or 226. The figures are substantiated in the following three paragraphs.

Imperial Beach has a population of approximately 26,992 (from SANDAG Census 2000 Profile, June 2003). According to the Census profile, approximately 73 percent of the population is employed, or 19,795 people for the City of Imperial Beach. SANDAG's Census Profile estimates that there are 11,721 people who commute to work and of that, 131 use the bicycle as a means of transportation. Results indicate that one percent of the commutes are done by bicycle.

To this number must be added children who ride bikes to school. According to Census Profile, the school age population (5-17 years old) is 21 percent of the overall population, or 5,684. According to surveys conducted at area schools for other similar studies over the last several years, roughly 1.5 percent of school age children ride bikes to school, or 85 in Imperial Beach.

These additional 85 school age bicycle commuters added to the 131 adult commuters yields an estimated City total of 216 bicycle commuters, or 1 percent of Imperial Beach's total population of 26,992. The estimated increase resulting from implementation of this plan is 10, or five percent more than the current 216 bicycle commuters in Imperial Beach, totaling 226. (Note that using SANDAG Census 2000 Profile data likely underestimates bike commuter numbers because the Census only asks for the primary transportation mode to work, missing the once or twice a week bike commuter. Also, more commuters are likely to bicycle in Southern California than the national average.)

(b) A map and description of existing and proposed land use and settlement patterns which shall include, but not be limited to, locations of residential neighborhoods, schools, shopping centers, public buildings and major employment centers.

Maps were derived primarily from data supplied by the U.S. Census Bureau via the San Diego Association of Governments (SANDAG). This information is contained in maps and text in Chapter 3, beginning on page 31, including Figure 3-1: Existing Land Use, Figure 3-2: Planned Land Use, Figure 3-3: Activity Locations, Figure 5-1: 2000 Population Density, Figure 5-2: 2002 Population Density, Figure 5-3: 2000 Employment Density and Figure 5-4: 2020 Employment Density.

(c) A map and description of existing and proposed bikeways.

Maps and description can be found in Chapter 4, beginning on page 4-1, and in Figure 4-1: Existing and Proposed Bikeway Facilities.





(d) A map and description of existing and proposed end-of-trip bicycle parking facilities. These shall include, but not be limited to, parking at schools, shopping centers, public buildings and major employment centers.

Available information is contained in maps in Chapters 3 and 5, starting on page 3-1, and in Figure 3-3: Activity Locations. Chapter 5 contains information regarding employment densities beginning on page 5-1 and in Figure 5-3: 2000 Employment Density and Figure 5-4: 2020 Employment Density. Bicycle parking facilities are generally provided at all schools, shopping centers, public buildings and major employment centers shown on the maps.

(e) A map and description of existing and proposed bicycle transport and parking facilities for connections with and use of other transportation modes. These shall include, but not be limited to, parking facilities at transit stops, rail and transit terminals, ferry docks and landings, park and ride lots, and provisions for transporting bicyclists and bicycles on transit or rail vehicles of ferry vessels.

This information is contained in Chapter 2, and Figure 2-2: Bus Routes and Bus Stops, on page 2-5. The City of Imperial Beach only has access to a bus route transit system within the City limits. Two trolley stations just east of the City in the City of San Diego are the closest rail transit stations. No major transit center resides in Imperial Beach.

(f) A map and description of existing and proposed facilities for changing and storing clothes and equipment. These shall include, but not be limited to, locker, restroom and shower facilities near bicycle parking facilities.

This map and description can be found in Chapter 3, beginning on page 3-1 and in Figure 3-3: Activity Centers. Chapter 5 discusses employment densities and in Figures 5-3: 2000 Employment Density and Figure 5-4: 2020 Employment Density. According to the City, some major employment centers and most large government facilities have locker, restroom and shower facilities.

(g) A description of bicycle safety and education programs conducted in the area included in the plan, efforts by the law enforcement agency having primary traffic law enforcement responsibility in the area to enforce provisions of the Vehicle Code pertaining to bicycle operation, and the resulting effect on accidents involving bicyclists.

The Public Safety Department instituted a Pedestrian and Bicycle Safety Program in November of 2004. The program was funded through a grant from the California Office of Traffic Safety. The goal of the grant was to reduce the number of pedestrian and bicycle involved traffic accidents. This was accomplished through public education and outreach and increased law enforcement focusing on helmet use by bicyclist and other safety rules. The education and outreach included presentations at local schools, Boys and Girls Club, Senior Citizen Groups, and other community groups. The placing of bicycle and pedestrian safety posters throughout the city in Spanish and English, and through the use of bicycle rodeos allowed law enforcement and other safety officials to give hands-on training to children. Free helmets were also provided to the kids. According to OTS traffic statistics, the city did realize a reduction of motor vehicle-bicycle collisions and injuries after the program was completed. The bicycle rodeos have continued at least once per year.



(h) A description of the extent of citizen and community involvement in development of the plan including, but not be limited to, letters of support.

Community involvement consisted of a public workshop conducted on March 29, 2007 at the City of Imperial Beach City Hall in which 22 people attended. This was the public meeting to introduce the Bicycle Transportation Plan (BTP) and Eco-Route Bikeway Palm Avenue Traffic Calming Project to the community. The first hour was dedicated to talking about the BTP while the second hour presented the design concept of the Eco-Route Bikeway Palm Avenue Traffic Calming Project. Some issues raised by the public was restroom facilities on the Bayshore Bikeway, the SR-75/Palm Avenue intersections and extending Class 1 bike paths to the coast.

(i) A description of how the bicycle transportation plan has been coordinated and is consistent with the local or regional transportation, air quality or energy conservation plans, including, but not be limited to, programs that provide incentives for bicycle commuting.

The selection of new bikeways proposed in this plan reflects review of regional transportation plans by providing linkages to regional bikeways wherever possible. The City of Imperial Beach has yet to implement some of the programmed bikeway facilities in the 1994 General Plan and Coastal Plan. Segments recommended in this update are intended to fill gaps in the existing system and look at alternatives to programmed and suggested facilities. The remainder is intended to provide school age children with safer routes to elementary and middle schools. This plan also works to make bicycle travel within the City of Imperial Beach more convenient and safe so that people are encouraged to reduce their motor vehicle travel in lieu of bicycles by providing more direct and consistent routes.

Local air quality, beach and coastline, climate, historical resources and open space conservation goals as expressed in the City of Imperial Beach General Plan and Coastal Plan include coordinating and guiding decisions related to the land and water areas which influence and shape the quality of the City. The Open Space and Conservation Element takes into consideration those open space areas necessary for the preservation and conservation of various natural resources, for outdoor recreation, for the enjoyment of scenic beauty and areas of historic/cultural value, and for the protection of public health and safety.

(j) A description of the projects proposed in the plan and a listing of their priorities of implementation.

The projects are can be found in Chapter 7, pages 7-1 to 7-18, in Table 8-2: Capital Improvement Projects.

(k) A description of past expenditures for bicycle facilities and future financial needs for projects that improve safety and convenience for bicycle commuters in the plan area.

In 1996, the City of Imperial Beach constructed their section of the Bayshore Bikeway for a cost of approximately \$340,000. They also designed the Bayshore Bikeway Spur, a section from north of Salt Pond 30 in Coronado along SR-75 to Rainbow Drive. The design cost was approximately \$250,000. The project however was rejected when the only qualified bid came in at over \$2,000,000. This project is still in the five year CIP plan but there has been no active work on the project since the bid rejection in 2004. Past preliminary and feasibility studies have cost approximately \$100,000.



Executive Summary

Project Scope

This study is a comprehensive update of the 1994 City of Imperial Beach General Plan and Coastal Plan's Circulation Element. The city's growth necessitated an update to better address not only local bicycle travel needs, but also to better serve regional long-distance travel and promote ecotourism. This resulting document should be responsive to any General Plan changes that will affect circulation patterns.

Plan objectives included establishing facility types to be implemented and identifying points where the city's bikeway system could integrate with the existing San Diego metropolitan regional bikeway system. The project's scope included documenting and evaluating Imperial Beach's existing bikeway facility system and its relationship with other systems such as mass transit, and recommending improvements wherever appropriate.

This plan sought to maximize the efficiencies offered by multi-modal connections between mass transit and bikeways and to promote a viable alternative to the automobile travel in a climate particularly conducive to bicycle transportation. It also sought to provide a more convenient bikeway system for cyclists who do not have ready access to motor vehicles.

The Cyclist's Perspective

This plan was developed with a "cyclist's perspective" by planners who routinely commute by bicycle and fully understand the implications of bicycle travel. All potential routes were ridden to experience them firsthand, including those routes planners felt would be forbidding to most users due to high motor vehicle speeds and volumes. The planners' "on the ground" familiarity of the City and subsequent thorough analysis resulted in supportable recommendations portrayed in clear text and graphic format.

This plan incorporated the latest in geographic information systems (GIS) technology to support its mapping and planning recommendations. GIS data were used to characterize facility siting factors such as housing, population and employment densities.

Compliance with State Law

Pursuant to California law, this plan is to complement the City of Imperial Beach's General Plan Circulation Element was used to direct roadway improvements to include bikeway facilities.

By law, cities must adopt their bikeway master plans (termed "Bicycle Transportation Plans" by Caltrans) no earlier than four years prior to July 1 of the fiscal year in which the state's Bicycle Transportation Account (BTA) funds are to be granted. For example, the 2008/2009 fiscal year began on July 1, 2008. Cities applying for 2005/2006 BTA funds must have a bikeway master plan adopted July 1, 2004 or later. This four year cycle should help to make certain that General Plan changes affecting bicycle transportation will be accommodated in a timely manner.

Methodology

The project methodology included a review of applicable documents, field work and geographic information systems (GIS) analysis of the field work data. Imperial Beach's existing bikeway system was analyzed for a number of factors using both traditional field survey and GIS techniques.

Literature Review

Applicable sections of documents related to Imperial Beach's bikeway system are excerpted in Chapter 4: Bikeway Facilities. These include the current General Plan Circulation Element, as well as neighboring community, regional and state plans and guidelines.



Field Work

During the initial field work, all mapped routes were driven to verify accuracy with respect to existing bikeway mapping data. The consultant also rode many of these routes, especially those that did not appear to be consistent with the data. These discrepancies were often discontinuous routes or route extensions that had not been previously digitized.

Community Input

Community involvement consisted of a public workshop conducted on March 29, 2007 at the City of Imperial Beach City Hall in which 22 people attended. This was the public meeting to introduce the Bicycle Transportation Plan (BTP) and Eco-Route Bikeway Palm Avenue Traffic Calming Project to the community. The first hour was dedicated to talking about the BTP while the second hour presented the design concept of the Eco-Route Bikeway Palm Avenue Traffic Calming Project. Some issues raised by the public was restroom facilities on the Bayshore Bikeway, the SR-75/Palm Avenue intersections and extending Class 1 bike paths to the coast.

Project Approach

The overall approach taken in this master plan can be summarized as the following:

- The bicycle master plan should be integrated into all transportation plans, especially if the bicycle will use general purpose roads shared with other forms of transportation.
- An administrative framework and the support of public interest groups is critical for the success of a master plan effort.
- The aim of planning for bicycles should not be focused on any particular product so much as it should be focused on the safe and efficient travel of cyclists. This will generally require both the use of the existing transportation infrastructure and the construction of special facilities for cyclists.
- The maintenance of bicycle facilities and the monitoring and assessment of their performance must ensure continuing safe and efficient travel for cyclists. Planning for cyclists is an on-going process.
- The coexistence of cyclists and drivers on the roads requires that both are sensitive to and recognize a common set of rules. Training, education and enforcement are as important as physical planning and design.
- It is imperative that a “bicycle perspective” guide any planning for cyclists. The bicycle has its own characteristics, constraints and opportunities that the planner must consider. This must be combined with the recognition that cyclists do not form a homogeneous group in terms of age, ability, experience or traffic judgment.

Funding Sources

Appropriate funding for bikeway facilities could come from many sources. An increased emphasis on integrated multi-modal planning has created several federal, state and local funding sources for new bicycle facilities. Understanding the grant program and selection criteria of these programs can dramatically increase the likelihood of funding. The applicable funding sources will be somewhat dependent on the selected conceptual framework for the bikeway system. (See Chapter 7: CIPs and Bikeway Funding.)

Proposed bikeway facilities reflect an understanding of budgetary constraints. The planning team’s approach was to emphasize solutions for which funding is most readily available, but not to the exclusion of the goals and objectives of the master plan.



Bikeway Continuity

Many existing systems receive less use than projected because the potential users view them as too piecemeal in configuration, and therefore inefficient and unsafe. The creation of an effective bikeway system may be achieved with steps as relatively simple and cheap as re-stripping roadways and installing signage, but it will probably also require more costly measures such as the establishment of easements, removal of encroachments, or even the outright purchase of land. The planning team's approach included evaluation of methods for maintaining bikeway cohesiveness, with proposed solutions within the proper conceptual framework.

Understanding Cyclists' Needs

Only a cyclist truly understands the needs of a cyclist. The proper cycling perspective must permeate the bikeway planning process. This issue is fully understood by the planning team members. It has much to do with the team's desire to pursue this planning project; to see it done right. The team's personnel selection was based in part on cycling experience.

Project Goals

The following project goals were developed in close cooperation with City staff. These goals are the fundamental criteria for the City of Imperial Beach's planned bikeway system.

1. Popular

Bikeway system design and layout will consider all segments of the cycling population.

2. Systemic

The bikeway system will endeavor to be a complete system emphasizing local and regional continuity and connectivity.

3. Destination-Oriented

The bikeway system will be destination-oriented, especially towards employment centers, residential areas and high use activity centers – including access to other modes of local and regional transportation systems.

4. Safe

Safety will be the bikeway system's paramount concern, focusing on maximum visibility for the cyclist, signage, bikeway segment selection and utilizing easily recognized markers to clearly identify paths, lanes and routes.

5. Designed to Standards

The bikeway system will conform to the minimum design standards established by Caltrans. Facilities will endeavor to include, but not be limited to, bike lockers and locking racks.

6. Maintained

The City will regularly maintain bikeway system segments and facilities.

7. Minimize Liability Exposure

Bikeway system design and layout will minimize the City's and adjacent property owners' liability exposure to issues such as trespassing, loss of privacy, damage and property loss associated with bike routes.

8. Minimize Cost

Whenever possible, bikeway system design and layout will minimize potential financial burden to the City by engaging development to implement bike segments, locating segments within the existing right-of-way and minimizing the need for acquisition.

9. Environmentally Sensitive

Whenever possible, the bikeway system will utilize environmentally sensitive routing to minimize environmental impacts.





10. Educational

The bikeway master plan will consider methods not only to promote the benefits of cycling, but also to enhance safety by educating both cyclists and drivers to coexist with an awareness of each other.

Project Definitions

To prevent the confusion that can occur when referring to bikeways, bicycle lanes, bicycle routes, bicycle trails or bicycle paths, the California Department of Transportation (Caltrans) standards for referring to bikeway facility types are used throughout this document. (See photos and Section 1.3: Bikeway Facility Types on pages 1-1 and 1-2.)

Trip Origin and Destination Analysis

Analysis of specific types of bicycle trip origin and destination points are required by Caltrans for its approval of bikeway master plans. The standard Caltrans list includes residential neighborhoods, schools, shopping centers, public buildings and major employment centers (Bicycle Transportation Account Compliance - Code Section 891.2). These were identified and analyzed and further supplemented by additional types of origin and destination points. Other trip origin and destination points included the city hall, hospitals, park and ride lots, train stations, transportation centers, parks, community or visitors center and libraries. (See Chapter 3: Land Use Analysis.)

Multi-Modal Analysis

Linking the bikeway facility system with other transportation modes can enhance the efficiency of bicycle transportation, especially for commuting cyclists. They can use their bicycles to get to or from a multi-modal transfer point as part of their regular commute. Where transit modes allow bicycles on board, multi-modal transit becomes a very useful transportation option. Whether the other modes allow bicycles to be brought on board or not, they allow for much greater flexibility for persons choosing to commute by modes other than the private automobile. (See Chapter 2: Circulation Element.)

Safety Analysis

Safety is a primary concern in evaluating an existing bikeway facility system or in proposing new facilities or extensions. The primary lesson learned from the literature reviewed for this bicycle master plan and others is that installation of bicycle facilities without careful consideration of their specific attributes and drawbacks can actually exacerbate already problematic safety situations. This is particularly true for facilities that are likely to be used by other types of users such as walkers, runners and skaters, in addition to cyclists. Well designed, attractive, off-street bicycle facilities tend to become mixed use facilities and the other user types do not move with the relative predictability of vehicles. On the other hand, even though they move with more predictability, cyclists using on-street facilities must contend with motor vehicles. Safety concerns vary considerably depending on the type of bicycle facility. (See Chapter 4, Section 4-4: Bicycle Collisions.)

Opportunities and Constraints

Most of the bikeways proposed in this bikeway transportation plan update have been proposed in other documents, such as in the existing 1994 General Plan and Coastal Plan as well as the Bicycle Route Feasibility and Traffic Calming Study (2005). Whenever possible, routes were proposed to take advantage of opportunities to make connections between bicycle trip origin points and destination points in sections of the city that may not otherwise be accessible via a bikeway facility. This was generally feasible due to overall manageable grades within the city. The opportunities for a viable bikeway system in the City of Imperial Beach are in place. (See Chapter 7: Analysis and Recommendations.)



Current Constraints to Cycling

Lack of Amenities along the Bayshore Bikeway

The Bayshore Bikeway is a popular route in southern San Diego which connects the City of Coronado to Imperial Beach. This north-south route has over eight miles of bike path, interpretive stations and beach access. It does however lack amenities such as restrooms and bicycle parking, particularly along Imperial Beach. This plan identifies missing amenities and makes recommendations.

High Motor Vehicle Speeds

Imperial Beach only has two city blocks worth of existing Class 2 bikeway facilities and is on an arterial roadway with relatively high posted motor vehicle speeds. Experienced cyclists are generally not concerned with adjacent motor vehicle speeds when on a Class 2 bike lane, but when facilities do not exist it becomes more of a concern. Less experienced cyclists are more likely to find such conditions very uncomfortable and may be less likely to use these high speed roadways.

Narrow Roadways

Many roadways in Imperial Beach on which Class 2 bicycle facilities are proposed have adequate rights-of-way. However, implementation of some proposed routes may be constrained by the lack of available physical space because the some roadways on which they are proposed may have limited rights-of-way and on-street parking. Providing bicycle facilities such as Class 3 bike routes are the best solutions for connectivity in a City already built out. Imperial Beach is predominantly residential land use so speeds are relatively low with some streets wide enough to accommodate cyclists without the use of bike lanes.

Recommendations

The recommended routes are intended to take advantage of existing and programmed roadways and existing bicycle facilities to resolve cyclists' concerns for safety and connectivity. The City of Imperial Beach lacks a comprehensive system of Class 2 bikeways on its major roadways, with no existing Class 3 routes. The Class 1 Bayshore Bikeway is the only major bicycle facility near the City. The facilities shown in Figures 8-1: Bikeway Facilities on page 8-5 represent all three types of proposed bikeways and are delineated by proposed CIP segment numbers.

CIPs and Bikeway Funding

The following sections define the recommended bikeway system improvements as CIP projects with basic construction costs. See table 8-1: Typical Unit Construction Costs for general bikeway component construction costs. For a brief description of each segment, including estimated costs and segment lengths, see Table 8-2: Capital Improvement Projects. The remaining sections of Chapter 8 describe the funding sources available for bikeway projects, followed by a summary, Table 8-3: Bikeway Facility Funding Summary.

Bikeway Development Priorities

The factors used in prioritizing the implementation of potential bikeway project types included probable demand, regional significance, transportation efficiency and likely funding sources. With these criteria, completion of the Eco-Route was given first priority, followed by routes that would most benefit bicycle transportation.

Note that the segment numbering sequence lists the Class 1 Bayshore Bikeway connections first, along with separate lists of proposed Class 2 facilities and the Class 3 facilities. This represents the recommended prioritization within facility classes only. It is difficult to prioritize all of the proposed bikeway facilities across the facility classes because several Class 3 routes could be implemented for far less than the cost of a single Class 2 lane, for example. Therefore, it is recommended that the Class 1, 2 and 3 facilities be regarded as parallel lists and be implemented as appropriate funds become available for each type of facility. (See Table 8-2: Capital Improvement Projects, for more information.)



Class 1 Bikeways Costs

Because they are constructed independently of existing or programmed motor vehicle facilities, Class 1 paths are by far the most expensive of all bicycle facilities. Typical costs per mile can vary a great deal due to possible right-of-way acquisition, bridges and other potential major expenses such as extensive grading. The cost range is primarily due to topography and facility width. For example, a Class 1 facility being converted from a rail roadbed across flat terrain will require far less grubbing, grading and structural enhancements than a facility being constructed through an undeveloped area with hilly topography. For this bikeway master plan, the cost used in Table 8-2 for the rail trail segment was \$466 per linear foot, or approximately \$2,460,480 per mile, due to potentially extensive construction, grading, bridges and environmental review. A more standardized figure was used for the other Class 1 segments of \$190 per linear foot, or \$1,000,000 per mile.

Class 2 Bikeways Costs

Class 2 facility costs are approximately \$15,000 to \$35,000 per mile. This cost includes all necessary lane striping and signage, but does not include widening of roadways or land acquisition, if necessary. The cost used in Table 8-2 was \$6 per linear foot, or approximately \$32,000 per mile.

Class 3 Bikeways Costs

Class 3 routes costs are the lowest of all facility types because the only physical improvement to be installed is route signage. The cost range is \$1,500 to \$5,000 per mile. The cost used in Table 8-2 was \$0.70 per linear foot, or approximately \$3,500 per mile.

Bikeway Funding Sources

Federal, State and local government agencies invest billions of dollars every year in the nation's transportation system. Only a fraction of that funding is used in development projects, policy development and planning to improve conditions for cyclists. Even though appropriate funds are limited, they are available, but desirable projects sometimes go unfunded because communities may be unaware of a fund's existence, or may apply for the wrong type of grants. Also, the competition between municipalities for the available bikeway funding is often fierce.

Whenever Federal funds are used for bicycle projects, a certain level of State and/or local matching funding is generally required. State funds are often available to local governments on similar terms. Almost every implemented bicycle program and facility in the United States has had more than one funding source and it often takes a good deal of coordination and opportunism to pull the various sources together.

According to the FHWA's publication, *An Analysis of Current Funding Mechanisms for Bicycle and Pedestrian Programs at the Federal, State and Local Levels*, where successful local bike facility programs exist, there is usually a full-time bicycle coordinator with extensive understanding of funding sources. Cities such as Seattle, Washington, Portland, Oregon and San Diego are prime examples. Bicycle coordinators are often in a position to develop a competitive project and detailed proposal that can be used to improve conditions for cyclists within their jurisdictions. Much of the information on Federal and State funding sources was derived from the previously mentioned FHWA publication.

Additional Resources

Chapter 9 contains a comprehensive set of bikeway design guidelines.

The appendices contain applicable state and federal bikeway planning publications, guidelines for selecting safe routes to school, and the California Vehicle Code sections on roadway bicycle use. The final appendix is the entire Caltrans *Highway Design Manual Chapter 1000 – Bikeway Planning and Design*.



Introduction

1

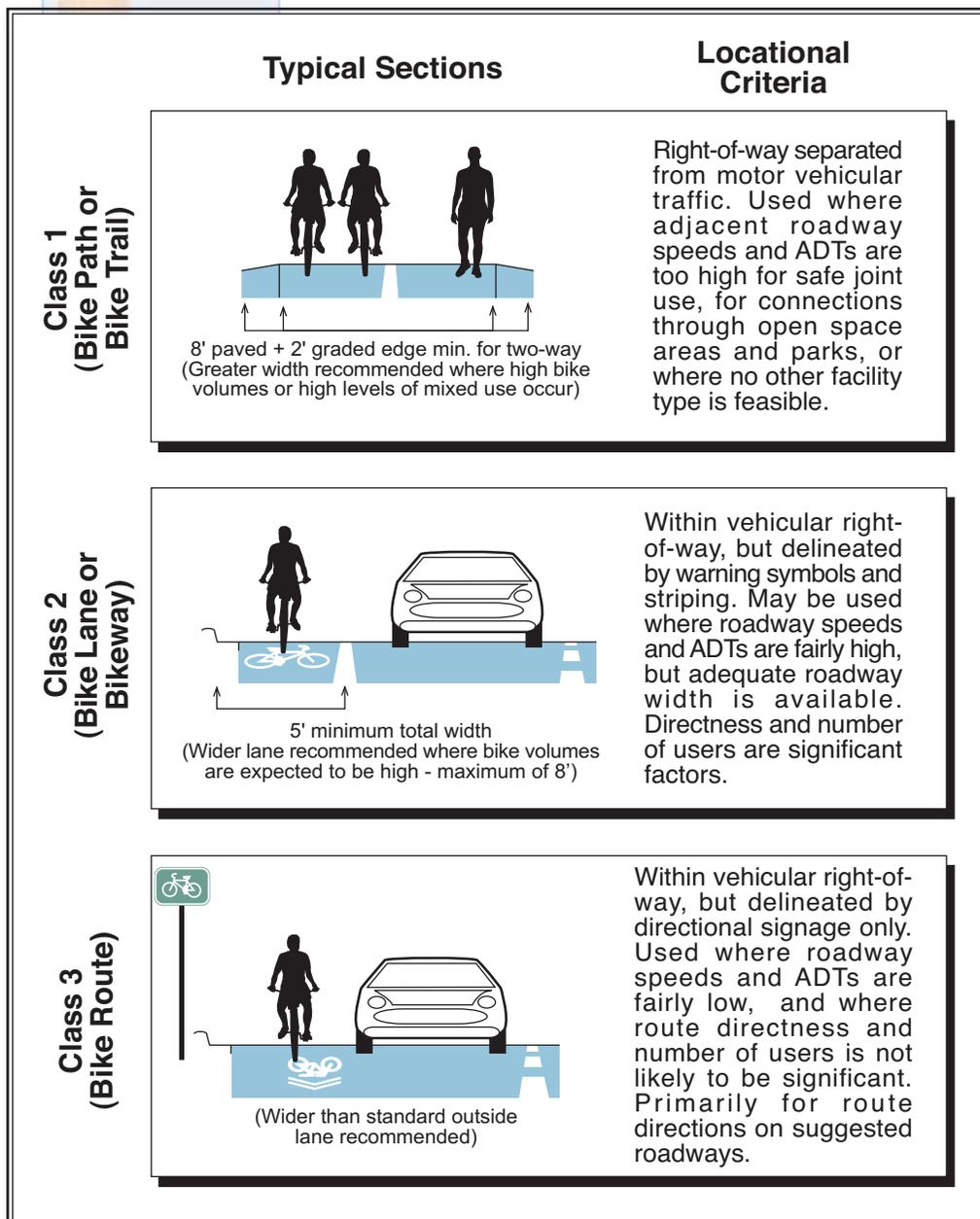
1.1 Project Scope

The scope of this report is to identify the existing conditions within the City of Imperial Beach, which will help the Bicycle Transportation Plan to determine the needs and feasibility of proposed projects from the 1994 City of Imperial Beach General Plan. Included in this report are current circulation element excerpts, existing and proposed land use, existing and proposed bicycle facilities, as well as collisions, bikeway facility types, activity locations, public transportation and the proposed Eco-Route Bikeway. This chapter also defines facility types.

1.2 Field Work

Field work was conducted in February, April and May of 2007 under mostly sunny skies and temperatures in the 60s.

Figure 1.1 Bikeway Facility Types



1.3 Bikeway Facility Types

Bikeway facilities considered for this study include Class 1 bike paths, Class 2 bike lanes and Class 3 bike routes. The following text and graphics describe their relative uses and attributes. (See figure at left.)

1.3.1 Class 1 Bike Paths

Class 1 bike paths are hard-surface routes within an exclusive right-of-way physically separated from vehicular roadways and intended specifically for non-motorized use. They are generally two-way with center striping, with a minimum paved width of eight feet, with an additional two feet of graded edge on each side, for a total of twelve feet. These facilities, although funded and designated as bikeway facilities, are frequently used by other non-motorized users and should be designed to account for them. Where volumes are anticipated to be high, and where significant numbers of other user types will be likely to use the path, additional width should be provided.





1.3.2 Class 2 Bike Lanes

Class 2 facilities are marked bicycle lanes within roadways adjacent to the curb lane, delineated by appropriate striping and signage. Bicycle lanes help to delineate available road space for preferential use by cyclists and motorists, and to promote more predictable movements by each. Bicycle lane markings can increase a cyclist's confidence in motorists not straying into his/her path of travel. Likewise, passing motorists are less likely to swerve to the left out of their lane to avoid cyclists on their right.

Bicycle lanes must be one-way facilities and carry traffic in the same direction as adjacent motor vehicle traffic. Two-way bicycle lanes on one side of the roadway are unacceptable because they promote riding against the flow of motor vehicle traffic. Wrong-way riding is the primary cause of bicycle crashes and violates the "Rules of the Road" stated in the Uniform Vehicle Code. Bicycle lanes on one-way streets should be on the right side of the street. In unique situations, it may be appropriate to provide a contra-flow bicycle lane on the left side of a one-way street where it will decrease the number of conflicts (e.g., those caused by heavy bus traffic). Where this occurs, the lane should be marked with a solid, double yellow line and the width of the lane should be increased by one foot.

Under ideal conditions, the minimum bicycle lane width is five feet, but certain edge conditions can dictate additional desirable bicycle lane width. However, even where roadway width is available, Class 2 bike lanes should be no wider than eight feet to prevent the appearance of a travel lane that could encourage motorists to drive in them.

If parking volume is substantial or turnover is high, an additional one or two feet of width is desirable for safe bicycle operation. Bicycle lanes should always be placed between the parking lane and the motor vehicle lanes. Bicycle lanes between the curb and the parking lane can create obstacles for cyclists and eliminate a cyclist's ability to avoid a car door as it is opened. Therefore, this placement should not be considered.

The Caltrans Highway Design Manual depicts four common locations for such facilities in relation to the roadway. (See figure on next page.) The first section depicts bicycle lanes on an urban curbed street where a striped parking lane is provided. The minimum bicycle lane width for this location is five feet.

The second section depicts an urban curbed street where parking is allowed, but without striping for a separate bike lane. This parking lane shared with bicycles should be 11 to 12 feet wide (3.3-3.6 meters). 13 feet (4m) is recommended where parking turnover is high, such as commercial districts. Cyclists do not generally ride near a curb because of the possibility of debris, of hitting a pedal on the curb, of an uneven longitudinal joint, or of a steeper cross slope.

The third section shows a roadway where parking is prohibited. Bicycle lanes in this location should have a minimum width of five feet (1.5m) where a curb occurs (measured from the curb face) and four feet (1.2m) where no curb is used. If the longitudinal joint between the gutter pan and the roadway surface is uneven and falls within five feet of the curb face, a minimum of four feet should be provided between the joint and the motor vehicle lanes.

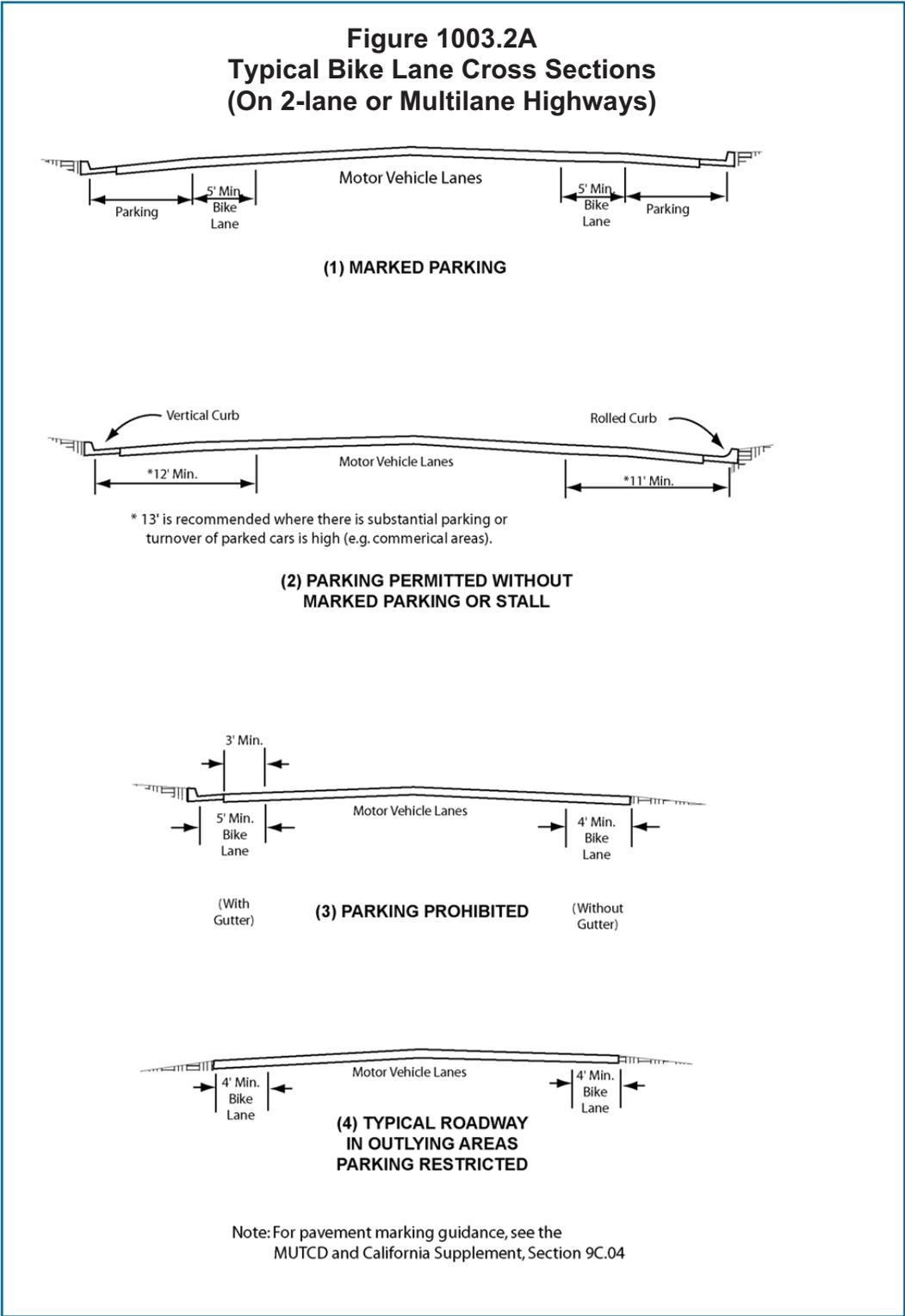
The fourth section depicts lanes on a roadway without curbs where parking is prohibited.



*Typical Class 2 Lane with adjacent parking
(City of Encinitas)*



Figure 1.2 Typical Class 2 Bike Lane Sections



Source: CALTRANS Highway Design Manual - Chapter 1000





1.3.3 Class 3 Bike Routes

A Class 3 facility is a suggested bicycle route marked by a series of signs designating a preferred route between destinations such as residential and shopping areas. A network of such routes can provide access to a number of destinations throughout the community. In some cases, looped systems of scenic routes have been created to provide users with a series of recreational experiences. In addition, such routes can provide relatively safe connections for commuting to workplaces or schools.

The designation of a roadway as a Class 3 facility should be based primarily on the advisability of encouraging bicycle use on that particular roadway. While the roadways chosen for bicycle routes may not be free of problems, they should offer the best balance of safety and convenience of the available alternatives.

In general, the most important considerations are pavement width and geometrics, traffic conditions and appropriateness of the intended purpose. A certain amount of risk and liability exists for any area that is signed as a Class 3 bike route. The message to the user public is that the facility is a safe route. Therefore, routes should not be placed on streets that do not meet appropriate safety standards.

How appropriate a particular roadway is for a bicycle route include directness, connectivity with other bicycle facilities, scenery and available services. Directness is important for cyclists traveling for a purpose, such as commuting, though this is not the case for recreational riders, for whom scenery or fitness may be the primary factor in selecting a route. For recreational riders traveling more than a few miles, services such as food, water, restrooms and pressurized air may be of interest.

According to the *Manual of Uniform Traffic Control Devices* (MUTCD), Bicycle Route Guide (MUTCD Sign Type D11-1) signs should be provided at decision points along designated bicycle routes, including signs to inform bicyclists of bicycle route direction changes and confirmation signs for route direction, distance, and destination. These signs should be repeated at regular intervals so that bicyclists entering from side streets will know that they are on a bicycle route. Similar guide signing should be used for shared roadways with intermediate signs placed for bicyclist guidance. (See below.)



Typical Class 3 Route (City of Encinitas)



MUTCD Sign Types W11-1 and W16-1 (Share the Road with Bicyclists Assembly)



MUTCD Sign Type D11-1 (Class 3 Route Sign) and "Sharrow" Shared Lane Marking





Circulation Element

2

2.1 Roadway Classifications

Like most cities in the San Diego region, the City of Imperial Beach's predominant street classification is the residential street. The City has roughly 38 miles of residential street, which are primarily two-lane roads. These residential streets and alleys create a grid system with few access limitations from collector streets to primary and major arterials.

According to SanGIS data, collector streets that connect multiple street networks can be found on Seacoast Drive from Imperial Beach to Palm Avenue, 3rd Street from Imperial Beach Boulevard to Palm Avenue, Connecticut Street from Iris Avenue to Elm Avenue, 9th Street from Fern to Palm Ave, 13th Street from Iris to Palm Avenue as well as Palm Avenue from 8th Street to Seacoast Drive. Other smaller collector street include 3rd Avenue from Palm Avenue to the northern City limit, Rainbow Drive from SR-75 to Palm Ave, Grove Avenue from 13th Street to the 15th Street and Iris Avenue from 13th Street to 15th Street.

2.1.1 Palm Avenue/SR-75

The prime arterial is Palm Avenue from where it merges with SR-75 eastbound to 13th Street, at the City limit. This is also the northern most east-west connection to Interstate 5. This prime arterial is a six-lane road from 13th Street and shrinks down to a four-lane collector street between the SR-75 merge and Third Avenue. Parallel parking can be found along the six-lane stretch of Palm Avenue. According to SANDAG data, the Average Daily Trips (ADT) along the six-lane stretch of Palm Avenue can exceed 37,000 ADT. Between SR-75 and Seacoast Drive, the traffic volume is 14,615 ADT. Reduction in trips is partly the result of the merge northbound onto SR-75, which becomes the Silver Strand into the City of Coronado. The section of SR-75 within the City limits has traffic volumes of between 18,000 to 21,000 ADT.



West on Palm Avenue

2.1.2 Imperial Beach Boulevard

Imperial Beach Boulevard is a major four-lane arterial from Seacoast Drive eastbound to the city limit street where it becomes Coronado Avenue in the City of San Diego. This serves as the southernmost

east-west connection between Interstate 5 and the coast. The most heavily used section of Imperial Beach Boulevard is from 9th Avenue eastward to the City limit with traffic volumes ranging from 14,000 to 19,000 ADT. There are multi-family and commercial areas along this stretch of Imperial Beach Boulevard. Another reason for traffic volumes is the connection from the City of San Diego that allows drivers to access SR-75 via 9th Street, as well as two elementary schools within one block north and south of Imperial Beach Boulevard. From 9th Avenue to Seacoast Drive, traffic volume is 8,092 ADT.





2.1.3 Seacoast Drive

Seacoast Drive provides north-south circulation at the western boundary of the City and access to the beach area. This two-lane collector street has traffic volumes of 5,000 ADT between Palm Avenue and Elm Avenue, which is adjacent to shops and restaurants. From Elm Avenue to Imperial Beach Boulevard, traffic volumes are lower, to about 4,233 ADT, and then down to 2,228 ADT from Imperial Beach Boulevard to the southern end of Seacoast Drive, where it is primarily single and multi-family residential. Beach access does play a role in seasonal ADT ranges along Seacoast Drive. According to the General Plan, an increase of 5,000-6,000 ADT occurs along Seacoast Drive from Palm Avenue to Imperial Beach Boulevard during the summer months. On-street parking occurs throughout Seacoast Drive.



Seacoast Drive at Dunes Park

2.1.4 Thirteenth Street

Thirteenth Street is the entrance to Imperial Beach Naval Outlying Field (NOLF) to the south and travels to the northern City limits and the Bayshore Bikeway. This four-lane collector accommodates bus stops and traffic volumes between 10,000 to 12,500 ADT from Palm Avenue to Iris Avenue. The quarter-mile section from Palm Avenue north to the Bayshore Bikeway has a traffic volume of 5,190 ADT and is surrounded by open space preserve, residential land use and warehouses. On-street parking occurs all along 13th Street.

2.1.5 Ninth Street

Ninth Street extends north from Iris Avenue and the Imperial Beach NOLF to a cul-de-sac just north of Cypress Avenue. This four-lane collector street has a traffic volume of 3,855 ADT from Imperial Beach to Sea Park Drive just north of Imperial Beach NOLF and a volume of 6,678 ADT from Imperial Beach Boulevard north to Palm Avenue. On-street parking, both parallel and diagonal, can be found throughout Ninth Street. North of Calla Avenue, 9th Street becomes a two-lane residential street.

2.1.6 Connecticut Street/Encina Avenue/7th Street

This two-lane north-south route connects Iris Avenue from NOLF Imperial Beach to the northern City limits and the Bayshore Bikeway. The Eco-Route uses this segment as its easternmost route and one of its north-south connections.



Connecticut Street south from Elm Avenue

2.1.7 Iris Avenue

Iris Avenue is a two-lane residential street and is the southernmost east-west connection that connects 5th Street to Connecticut Street and 10th Street to the eastern City limit where it becomes Satellite Street in the City of San Diego. From 13th Street to the City limit, Iris Avenue becomes a two-lane collector street with on-street parking on the westbound side only.



2.1.8 Rainbow Drive

This 830-foot segment connects SR-75 and Palm Avenue. It functions as a two-lane collector street with a traffic volume of 4,986 ADT.

2.2 Public Transportation

2.2.1 Bus Transit

The Metropolitan Transit System (MTS) provides bus transportation within the City of Imperial Beach. The three bus routes serving the City are located along Palm Avenue, Rainbow Drive, Seacoast Drive, Imperial Beach Boulevard, 9th Street, Holly Avenue and 11th and 13th Streets south of Imperial Beach Boulevard. According to SANDAG's 2001 Transit Stop data, the highest account of boardings and alightings within the City of Imperial Beach is the bus stop on Palm Avenue and 9th Street serving westbound commuters on Route 933 with a daily average of 435 people. The second most utilized bus stop is across the street at the Palm Avenue and 9th Street bus stop serving eastbound commuters on Route 934 at an average of 281 people per day. There are two other bus stops with over 200 users a day. The Imperial Beach Boulevard and 13th Street eastbound bus stop accommodates Route 933 and averages 219 users while the Imperial Beach Boulevard and California Street westbound stop sees an average of 201 users per day on Route 934. Bus service within the City experiences relatively high ridership levels due to the ease of access and connectivity provided by the grid street pattern.

2.2.2 Trolley Access

There is no trolley station within the City limits. The closest trolley stations to the City of Imperial Beach are on Palm Avenue and Iris Avenue just east of the City limits in the City of San Diego. These stations are along the Blue Line and can connect passengers south to the San Ysidro border crossing and north to downtown San Diego.





Figure 2.1 Street Classification

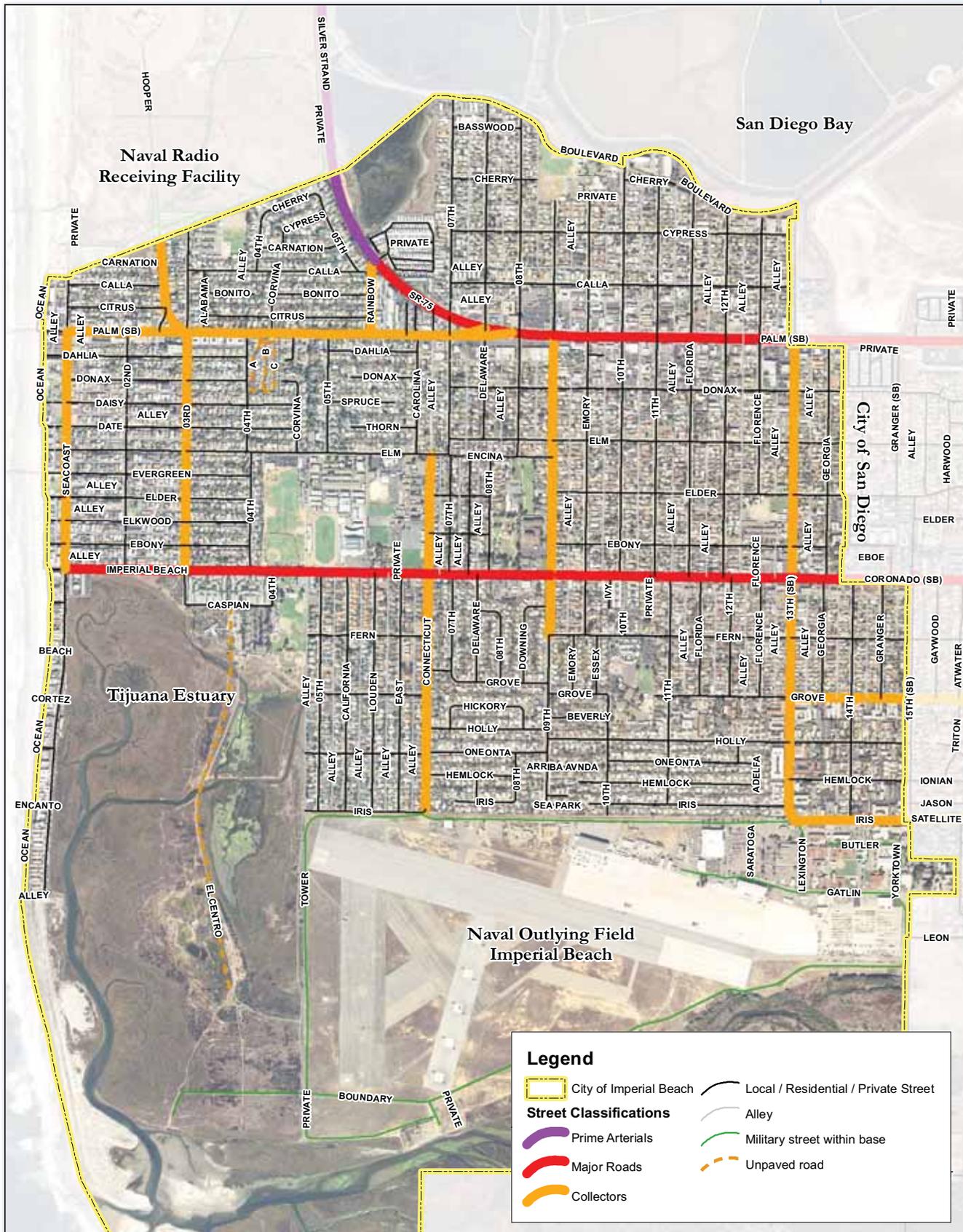


Figure 2.2 Bus Routes and Bus Stops

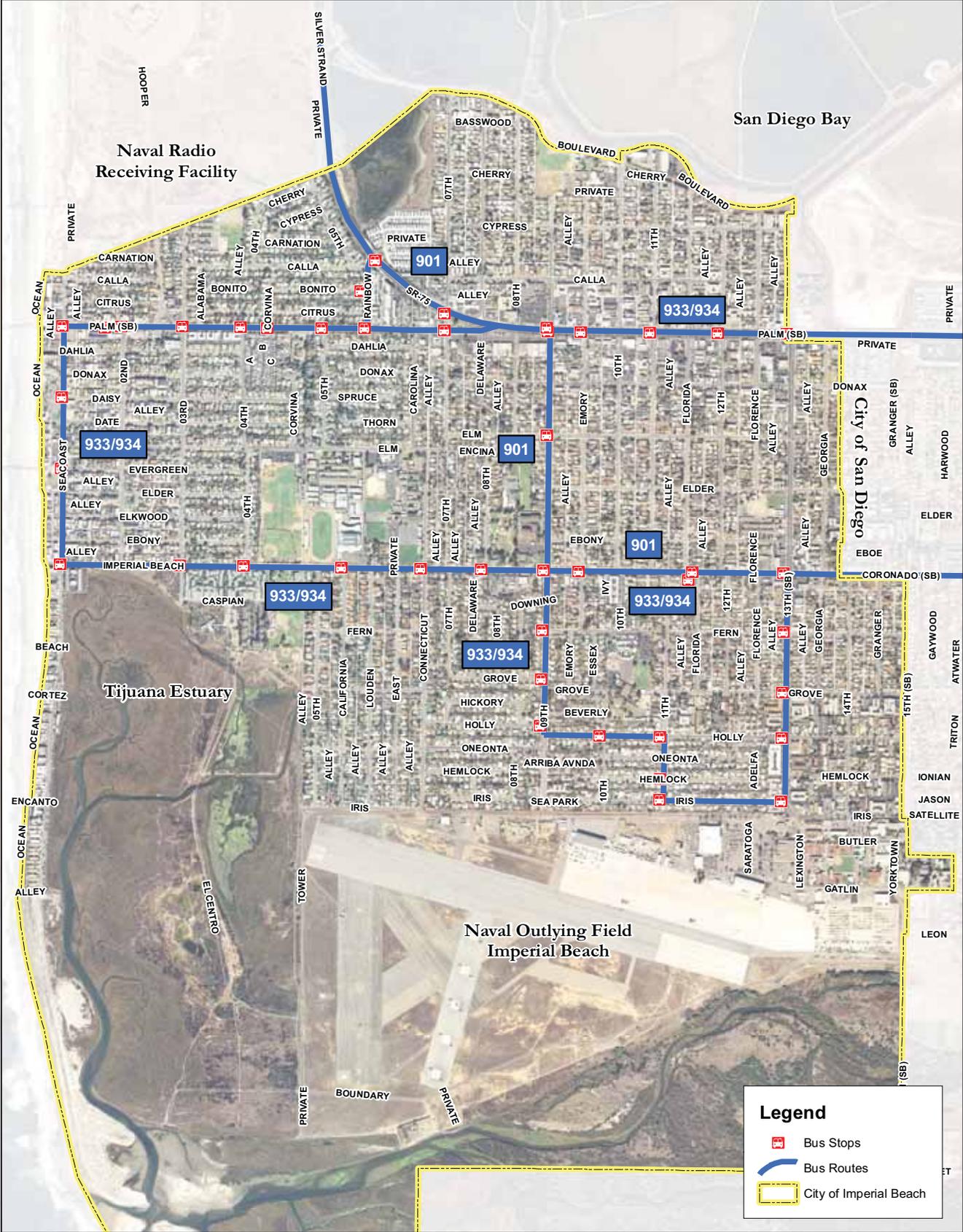




Figure 2.3 Bus Stop Boardings and Alightings





Land Use Analysis

3

3.1 Existing Land Use

The largest land use category within the City of Imperial Beach is open space, which encompasses the southwesternmost part of the City. This open space is the Tijuana Estuary and the Border Field State Park. Open space encompasses 36% of the land while single-family residential is second with 19% of the City land use. The military, which operates the Naval Outlying Field, takes up 6% of city as does multi-family residential. Multi-family residential can be found throughout the City but the largest concentrations are near the larger commercial strips and along major and collector arterials. Nonconforming industrial land use can be found in the northern edge of the city along the Bayshore Bikeway. Commercial uses can be found along Palm Avenue, Seacoast Drive and the corner of 13th Street and Imperial Beach Boulevard.

3.2 Planned Land Use

SANDAG future land use calls for more multi-family residential on the eastern side of the City between Palm Avenue and Iris Avenue and west of 9th Street. Currently this part of the City is a mix of single-family and multi-family residential. A two percent increase in multi-family and two percent decrease in single-family residential is planned. More multi-family residential is planned between Seacoast Drive and 3rd Street on the City's western limits and north of Calla Avenue between 7th Street and 13th Street. Commercial land use will increase along Seacoast Drive and Palm Avenue and stay relatively the same around the corner of 13th and Imperial Beach Boulevard.

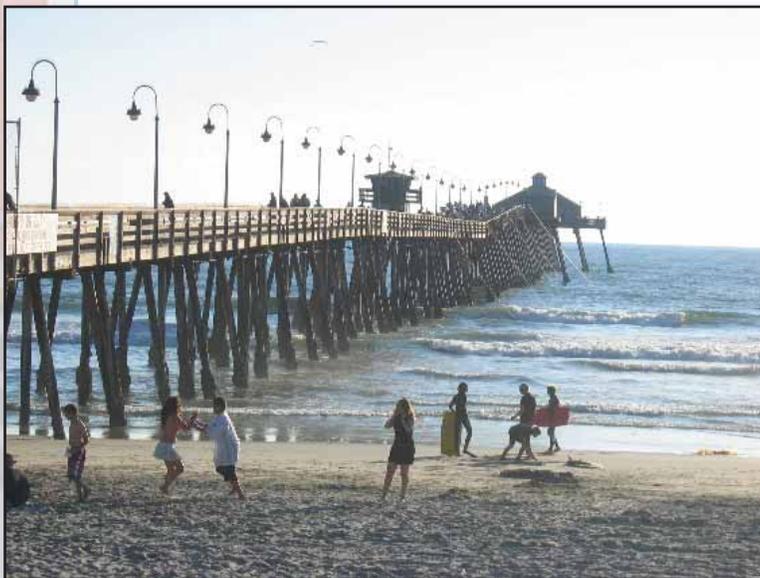
3.3 Activity Locations

3.3.1 Schools

There are five elementary schools in the City of Imperial Beach; Westview, Bayside, Imperial Beach, Central and Oneonta. The schools are spread across the city and are primarily accessed from adjacent residential streets, with the exception of Imperial Beach Elementary, which is along Imperial Beach Boulevard. Mar Vista High School is the only high school in the City and enrolls over 2,200 students

3.3.2 Parks and Recreation

Six local parks can be found in the City with two on the oceanfront; Dunes Park and Pier Plaza on Seacoast Drive. The two largest parks are The Sports Park on Imperial Beach Boulevard and Veterans Park on 8th Street. The easternmost park is the Rose Teeple Memorial Park on the corner of Florida Street and Calla Avenue.



Imperial Beach Pier

Pier Plaza is the gateway to the Imperial Beach Pier and boasts a 15,000 square foot safety center building, which includes a safety center, amphitheater, and retail spaces, on a 2.5-acre waterfront open space. Also included are a pier boardwalk, seawall and an extension of the existing park. Dunes Park is a popular park which displays





sculptures and has amenities such as volleyball courts, a playground and picnic areas. The Sports Park has one small gym, with one game room, teen room, music room with recording studio and outside patio. There are six multipurpose fields for baseball or softball and an outside basketball court with a playground and picnic area. Rose Teeple Park on the corner of Calla Avenue and Florida Street includes multiple playgrounds and picnic areas and primarily serves as a neighborhood park for the local residents. Veterans Park on 8th Street has a stage, picnic trellis and playgrounds. To the south of the park is the Imperial Beach Library and to the north, the Girls and Boys Club. Reama Park is a neighborhood park located on 2nd Street in between Elder Ave and Elkwood Ave. It provides multiple playgrounds and areas of open grass.

3.3.3 Commercial

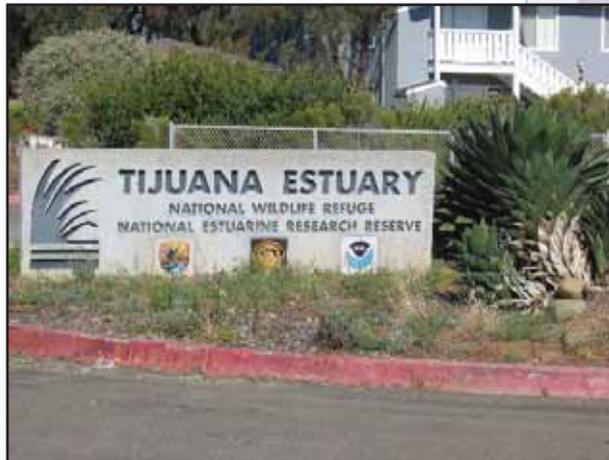
The largest span of commercial land use is along Palm Ave between 13th Street and Rainbow Drive. Palm Avenue from Third Street to Seacoast Drive and southbound on Seacoast Drive to Imperial Beach Boulevard is the second largest span of commercial land use. This section of commercial properties serves the beachgoers and is primarily small shops and restaurants and some single and multi-family residential in between. The corner of 13th Street and Imperial Beach Boulevard is the third largest pocket of commercial land use.

3.3.4 Naval Outlying Airfield (NOLF) Imperial Beach

The Naval Outlying Field (NOLF) is part of the North Island Naval Air Station and hosts most of the Pacific Fleet's helicopter training. NOLF Imperial Beach consists of approximately 1,100 acres and is the only exclusive-use Naval helicopter airfield on the west coast. The principle function of NOLF Imperial Beach is to provide landing practice training for Pacific Fleet aviation personnel. Navy helicopters based at Naval Air Station (NAS) North Island routinely fly to NOLF Imperial Beach to conduct training and practice operations. The Navy trains over 40 percent of the helicopter pilots in the entire Navy at NOLF Imperial Beach. Instrument Flight Training at NOLF Imperial Beach is mandatory to qualify these pilots for Naval aviation duty.

3.3.5 Tijuana Estuary

The Tijuana Estuary encompasses the southwestern portion of the City of Imperial Beach and is located in a highly urbanized environment. This preserve is along the international border of the United States and Mexico. The Tijuana Estuary is at the lower end of the Tijuana River watershed of which three quarters of the watershed is within Mexico. The reserve encompasses beach, dune, mudflat, saltmarsh, riparian, coastal sage and upland habitats surrounded by the growing cities of Tijuana, Imperial Beach and San Diego. The Tijuana River Estuary is one of the few salt marshes remaining in Southern California, where over 90% of wetland habitat has been lost to development. The site is an essential breeding, feeding and nesting ground and key stopover point on the Pacific Flyway for over 370 species of migratory and native birds. The reserve is home to seven threatened and endangered species, including the Light-footed clapper rail, California least tern, Least Bell's vireo, salt marsh bird's beak, cordgrass,



Tijuana Estuary



white pelicans and numerous shorebirds. The reserve environment is a saline marsh habitat for most of the year with the Tijuana River being an intermittent stream system subject to changes in stream flow at different times of the year.

Access to the estuary's trail system can be found on Seacoast Drive, the Tijuana Estuary Visitor's Center on Caspian Way, the corner of 5th and Grove and the corner of Iris Avenue and 5th Street. The Reserve offers four miles of trails, taking visitors into prime bird watching areas and down to the river mouth where the Tijuana River meets the Pacific Ocean. Visitors may explore the park on their own or join one of the free guided nature and bird walks on weekends.





Figure 3.1 Existing Land Use

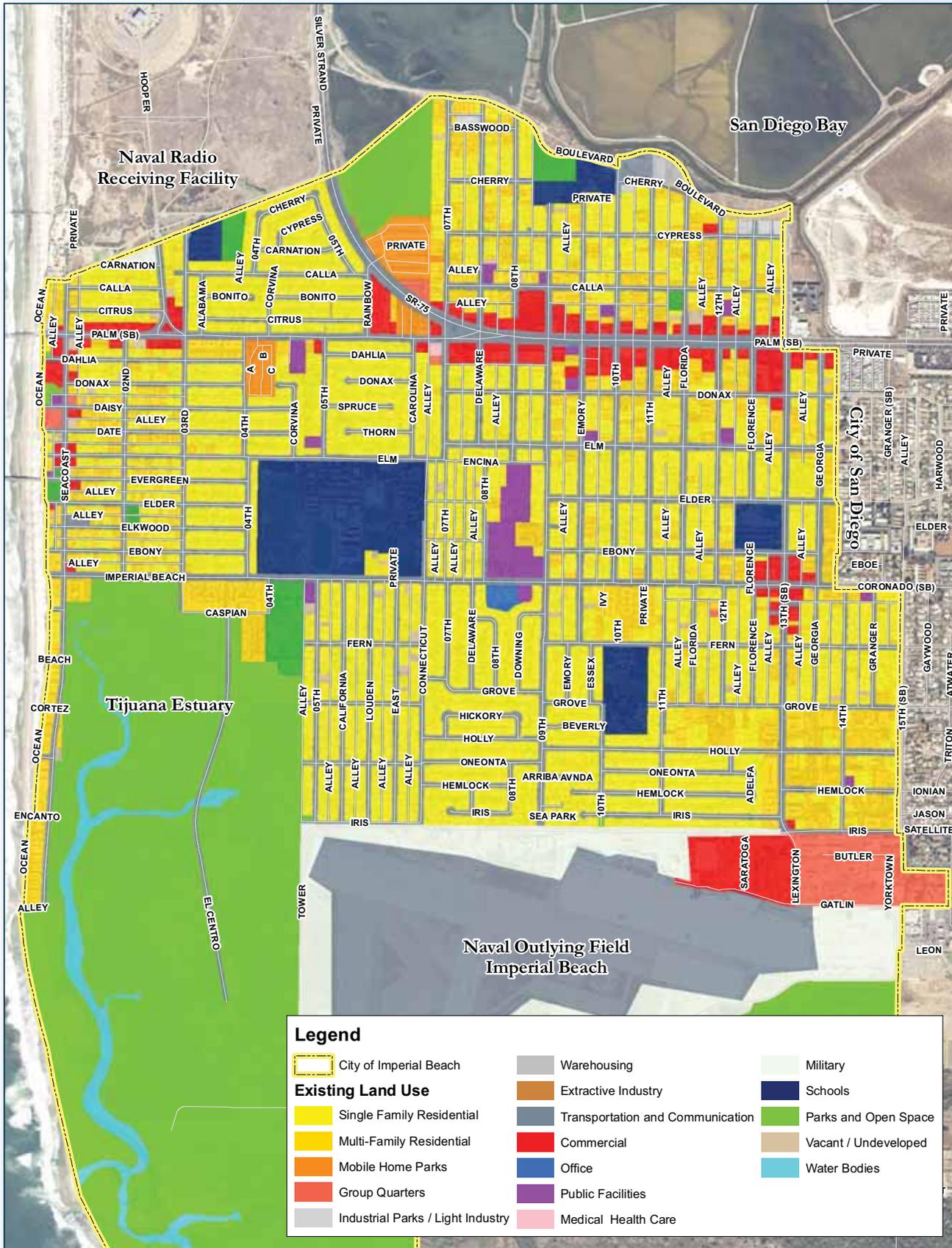


Figure 3.2 Planned Land Use

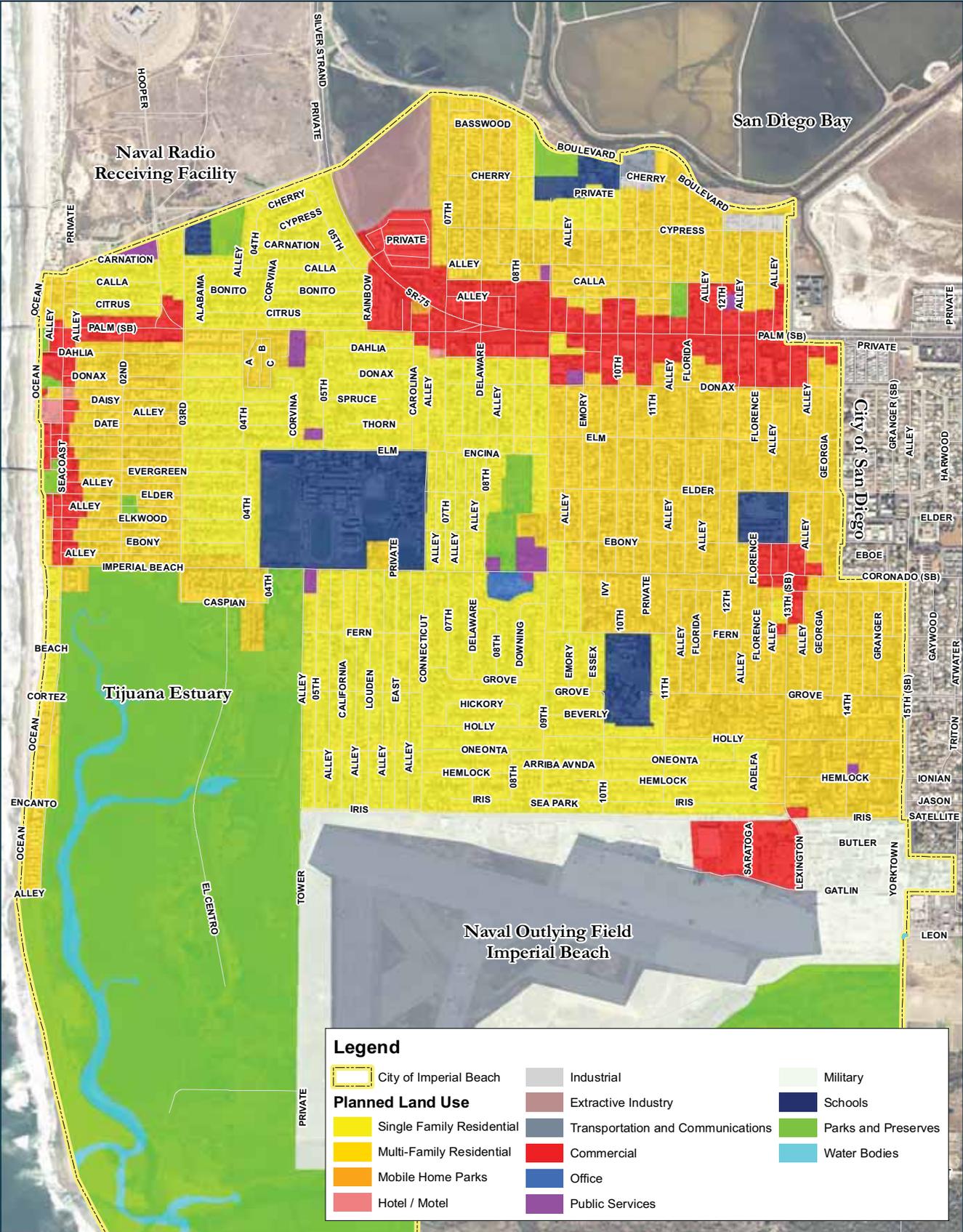
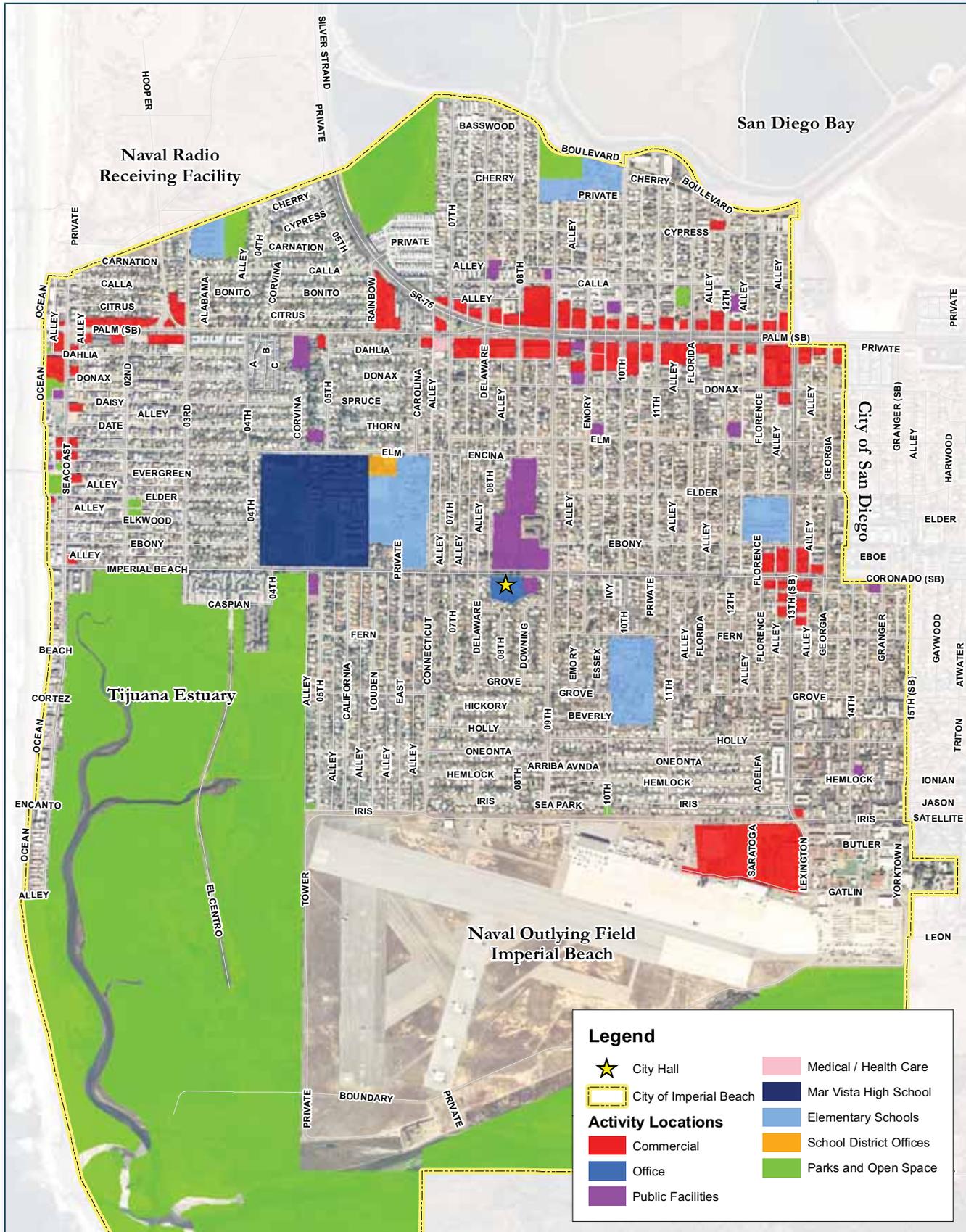




Figure 3.3 Activity Locations





Bikeway Facilities

4

4.1 Existing Bikeway Facilities and Connections

4.1.1 Class 1 Bayshore Bikeway

The Bayshore Bikeway is one of San Diego County’s premier bikeway systems. This 26-mile bicycle facility will take cyclists around San Diego Bay through the Cities of San Diego, National City, Chula Vista, Imperial Beach and Coronado. Bicyclists can then return to downtown San Diego using the ferry service provided between Coronado and San Diego. Currently, approximately 13 miles of bicycle paths are in use on the Bikeway. The rest of the facility consists of on-street sections designated as either bicycle lanes or bicycle routes. The scenery is rich and varied and a nine-mile stretch along south and west sides of San Diego Bay follows the former Coronado Branch of the San Diego and Arizona Eastern Railroad. The rails are still visible in some places. The 0.81 mile section of bikeway within the City of Imperial Beach runs along the northern boundary between the City and the San Diego Bay. This Class 1 bike path is the only bike path within the City.

4.1.2 Class 2 Bike Lanes

There are no Class 2 bike lanes within the City limits. A bike lane exists on Palm Avenue east of 13th Street within the City of San Diego immediately adjacent to Imperial Beach.

4.1.3 Class 3 Bike Routes

According to SANDAG, there are three sections of Class 3 bike routes totaling 1.2 miles that can be found on 7th Street from the Bayshore Bikeway to Cypress Avenue, east on Cypress Avenue from 7th Street to 13th Street and 13th Street from the Bayshore Bikeway to Palm Avenue. The Class 3 route has been removed from Cypress Avenue based on the City of Imperial Beach General Plan. It stated that once the Bayshore Bikeway was complete, the east-west Cypress Avenue connection between 7th Street and 13th Street would be replaced by the Bayshore Bikeway.



Bayshore Bikeway looking east

4.2 Connections to Adjacent Cities

Bicycle facilities connecting with adjacent cities are along the Class 2 section of Palm Avenue which heads east to the City of San Diego and the Bayshore Bikeway which connects to the Silver Strand Bike Path and into the City of Coronado to the north and Chula Vista to the east. Coronado Avenue is a Class 3 bike route which ends its designation when it turns into Imperial Beach Boulevard at the City limit line.

4.3 Proposed Bikeway Facilities

4.3.1 Class 1 Bike Paths

Currently, the City of San Diego is developing a new section of bike path between Imperial Beach and Chula Vista that will replace the current routing along Palm Avenue in South Bay. Construction should be in late September 2007. Within the City of Imperial Beach General Plan, there are no proposed Class 1 bike paths other than the completion of the Bayshore Bikeway segment on the northern boundary.





4.3.2 Class 2 Bike Lanes

Class 2 bike lanes are proposed along sections of Palm Avenue between Third Street and Delaware Street and between Florida Street and 13th Street. Other routes include Rainbow Drive between SR-75 and Palm Ave, Imperial Beach Boulevard between Seacoast Drive and 13th Street, SR-75 between Rainbow Drive and Palm Avenue and 13th Street between the Bayshore Bikeway and Palm Avenue. The existing Class 3 bike route on 13th Street is proposed to be converted to a Class 2 bike lane.

4.3.3 Class 3 Bike Routes

Bike routes are proposed along several collector streets in the City. Proposed Class 3 routes are Seacoast Drive from Palm Avenue to the end at the cul-de-sac, Seventh Street south to Encina, west on Elm and south on Connecticut Street to Iris Avenue. Third Street from Imperial Beach Boulevard to Caspian Way, Caspian Way to the Tijuana Estuary Visitors Center, along the path to Grove Avenue, 5th Street from Grove Avenue to Iris Avenue, Iris Avenue from 5th Street to Connecticut Street and 9th Street from Palm Avenue to Imperial Beach Boulevard. Palm Avenue is a combination of bike lanes and bike routes. Bike routes are proposed between Seacoast Drive and Third Street and between Delaware Street and Florida Street.

4.3.4 Sidewalk Bicycle Route

The Circulation Element of the General Plan calls for a Sidewalk Bicycle Route on the sidewalks of Palm Avenue between 3rd Street and 7th Street. These sidewalks are proposed to be available for pedestrians.

4.3.5 Ecoroute Bikeway

The 1994 Imperial Beach General Plan states, "A special Ecoroute Bikeway shall be established to encompass Imperial Beach's environmental assets including South San Diego Bay, the Tijuana River Estuary, the dunes on South Seacoast Drive, the beach, the pier and the breakwaters...Distinctive signage shall be developed to designate the route as well as a painted line on the pavement along the route..."

4.4 Bicycle Collisions

Based on Statewide Integrated Traffic Records System (SWITRs), there have been 47 collisions involving bicyclists in the City of Imperial Beach between 2002-2005. Thirty-nine reported injuries and no fatalities occurred. Seventeen of the incidents involved children under the age of 16, or 36 percent of the incidents. The streets that had the most collisions are Imperial Beach Boulevard with eight, 13th Street with seven, SR-75 with six and Palm



View south from Bayshore Bikeway



View southeast on trail skirting TENWR



Avenue with four. Numerous collisions occurred on streets with high ADTs such as Palm Avenue and Imperial Beach Boulevard between 9th Street to the eastern City limit. The occurrence of these collisions are also primarily on non-designated bikeway facilities, except for two incidents on the 13th Street Class 3 bike route between the Bayshore Bikeway and Palm Avenue.

4.5 1994 City of Imperial Beach General Plan Bikeway Policies

Policy C-15 Bikeways Plan

The General Plan proposes Seventh Street, a small segment of Encina Avenue and Connecticut Street as a Class 3 bike route.

The General Plan also proposes a “Sidewalk bike route” along Palm Avenue between Third and Seventh Streets.

Policy C-16 Ecoroute Bikeway

“A special Ecoroute Bikeway shall be established to encompass Imperial Beach’s environmental assets including South San Diego Bay, the Tijuana River Estuary, the dunes on South Seacoast Drive, the beach, the pier and the breakwaters...Distinctive signage shall be developed to designate the route as well as a painted line on the pavement along the route. Opportunities for interpretive stations should occur along the route...” (See opposite page.)

Policy C-18 Sidewalk Bike Route

“The Palm Avenue sidewalks between Third and Seventh Streets shall be designated as Sidewalk Bike Routes. Such sidewalks shall be signed to encourage bicyclists but shall also remain available for pedestrians.” (Note: This route type is not recognized by Caltrans and is recommended to be amended.)

Policy C-19 Bikeway Facilities Encouraged

“Bikeways shall be encouraged within the City and adjoining jurisdictions as a compliment to Imperial Beach’s small town residential character and recreation emphasis, as an effective alternative to automobile travel, to maximize the impact of air quality and energy conservation and for the convenience of residents and visitors.

The City shall install bicycle storage facilities in public areas such as the beach, City Hall and parks and in other public facilities in order to encourage bicycle use. Bicycle storage facilities should be considered as a required condition of approval on new development applications for proposed commercial, hotel or major residential projects.”





Figure 4.1 Existing and Programmed Bikeway Facilities

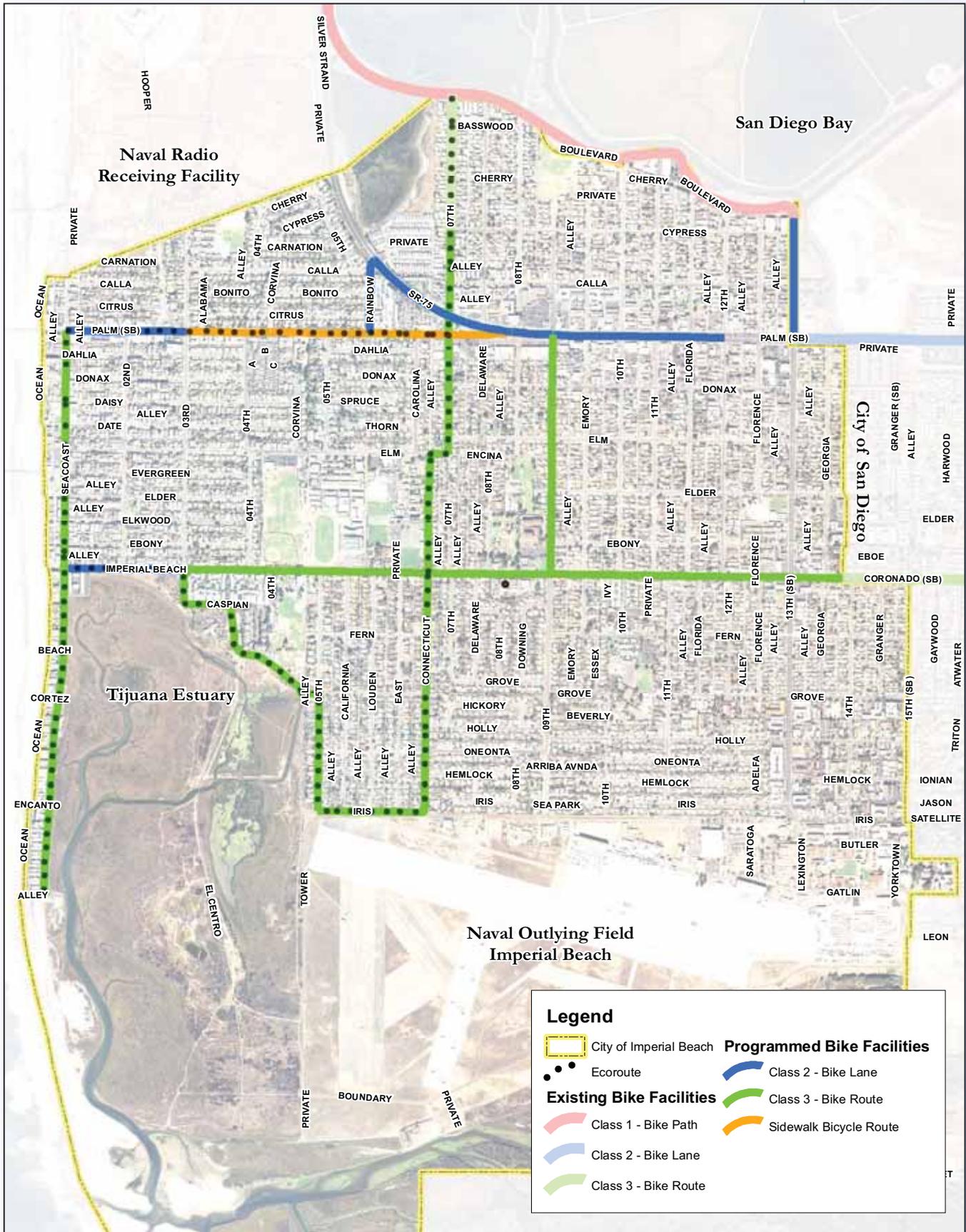
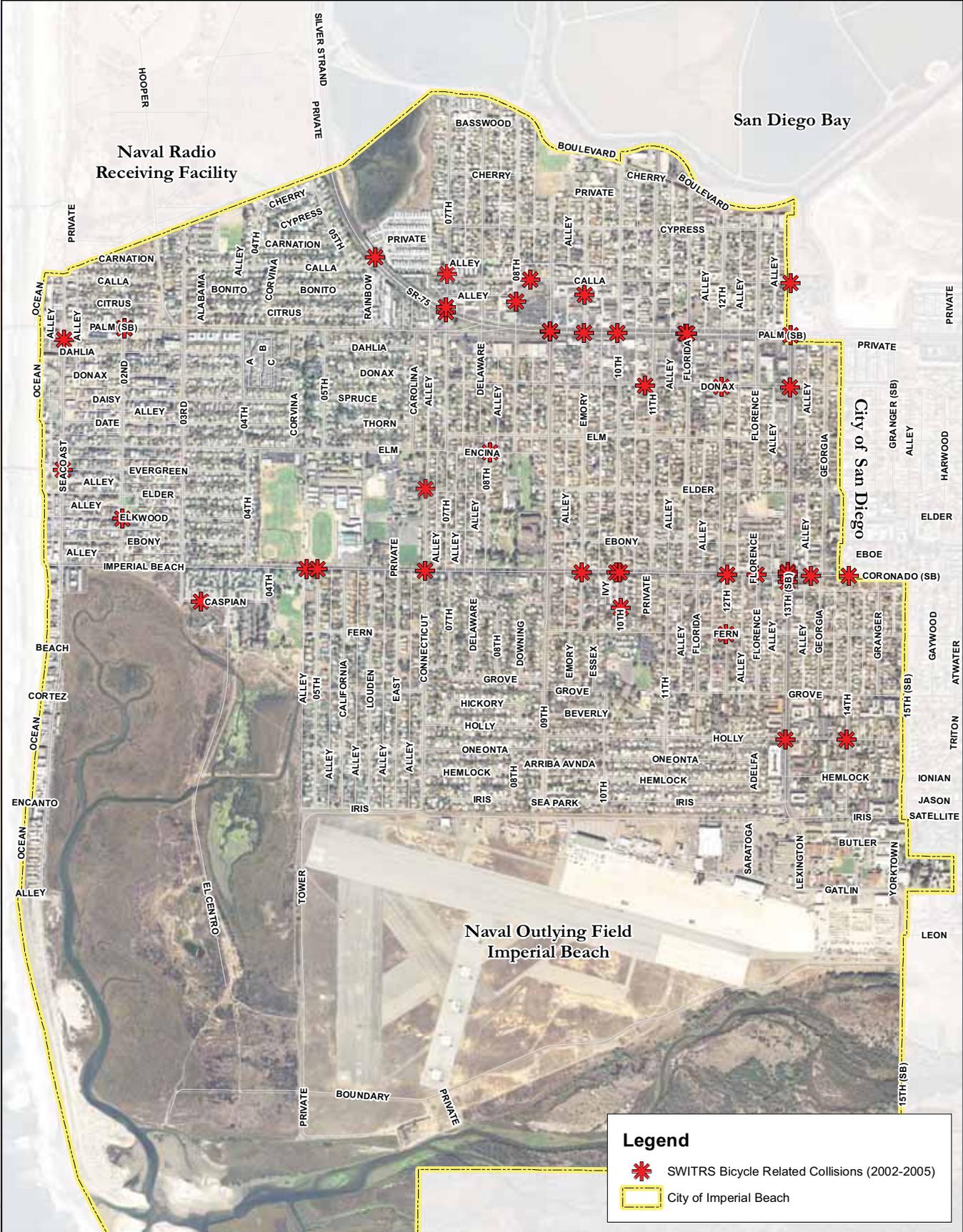


Figure 4.2 Bicycle Related Collisions





Demographics

5

5.1 Demographics

Most of the population statistics used to perform the demographic analysis for this plan were derived from regional demographics data obtained from the U.S. Census Bureau. SANDAG provided the land use data needed to produce the maps and analysis for this chapter including the most recent 2020 projections. Data developed from elevation models and aerial photography was also used in the analysis. These data sources were primarily used for defining and evaluating existing and projected population, employment population and bike-to-work population.

5.2 Current Population Density (2000)

Based on the 2000 US Census, the population for the City of Imperial Beach was 26,992. According to SANDAG, estimates for the year 2006 is 27,563, or an increase of 2.1%. The areas of highest population density are on the western and eastern sides of the City since single family residential is predominantly within the center of the City. The highest population density is found in the southeastern most part of the City along 13th, 14th and 15th Streets between Grove Avenue and Iris Avenue, with at least 46 people per acre. Pockets of high density can be found on Caspian Way between 3rd and 4th Street, along Seacoast Drive near Imperial Beach Boulevard and along Calla Avenue in the northeastern portion of the City. Along the eastern edge of the City, bikeway facilities are not currently present to serve this population density.

5.3 Projected Population Density (2020)

The projected population for the City in 2020 is roughly 32,590, according to SANDAG's Regional Growth Forecast Update. The areas of highest population density will experience an even greater influx of people, according to SANDAG's GIS data. In the southeastern corner of the City, the density of some neighborhood blocks will rise to more than 60 people per acre, as well as pockets between Florida Street and Donax Avenue, and again along Calla Avenue. The western side of the City will also experience an increase in density since this area is being planned for more multi-family residential and mixed use.



5.4 Current Employment Density (2000)

The City of Imperial Beach is a relatively “commuter city” in which most of the population works outside of the city. Major employment centers within the City are commercial services and schools. Currently, areas with significant employment densities are the schools and the major commercial land uses along Palm Avenue. The corner of 13th Street and Imperial Beach Boulevard, City Hall, the corner of Seacoast Drive and Palm Avenue and along Seacoast Drive are other areas with high employment densities. These areas are also along commercial corridors, except for City Hall.

5.5 Projected Employment Density (2020)

The employment density projection does not indicate much change for 2020. Density increases are expected along Seacoast Drive where more commercial land use is planned. A few areas along Palm Avenue increase in density within the commercial corridor, particularly around the SR-75/Palm Avenue intersection. Current employment density for the remainder of the City remains essentially unchanged.



5.6 Bicycle Commuting

Residential land uses are by far the most common origin points for bicycle trips within a community, followed by bicycle trips originating in the residential areas of adjacent communities. Analyzing census housing density data is the primary method to determine what areas of a city will be most likely to generate bicycle trips. Logically, the higher the housing density, the more bicycle trips will be generated.

The bicycling trips originating in residential areas typically terminate at schools and employment centers, retail and entertainment centers, parks and open space, as well as at other residential areas. For this reason, the sizes, densities and locations of residential developments and their relationships to associated land uses such as schools, employment centers and parks and open space are crucially important to bikeway facility planning.

Most bicycle trips are likely to be for transportation (commuting to work or school), recreation and exercise purposes. All use categories are likely to occur throughout the City, but recreational riding may occur wherever streets are wider and where there are fewer cross streets and curb cuts. Commuter riding may occur anywhere as well, but commuters are more likely to be seen on the more direct routes utilizing major streets and arterials.

According to the 2000 Census data for commuting to work by bicycle, the City of Imperial Beach has a fair number of bicycle commuters scattered throughout the City. The largest density of bicycle commuters can be found along the Bayshore Bikeway between 7th and 10th Streets. Other such areas occur between 2nd and 4th Streets between Date Avenue and Palm Avenue, and east of Connecticut Street and 7th Street between 9th Avenue to the east and Donax Avenue and Imperial Beach Boulevard to the north and south. Other areas with potentially high numbers of bicycle commuters are along north Seacoast Drive and the southeastern part of the City. These pockets of bicycle commuting primarily correlate with areas of high population densities.



Cyclists along Imperial Beach Boulevard

Figure 5.1 2000 Population Density

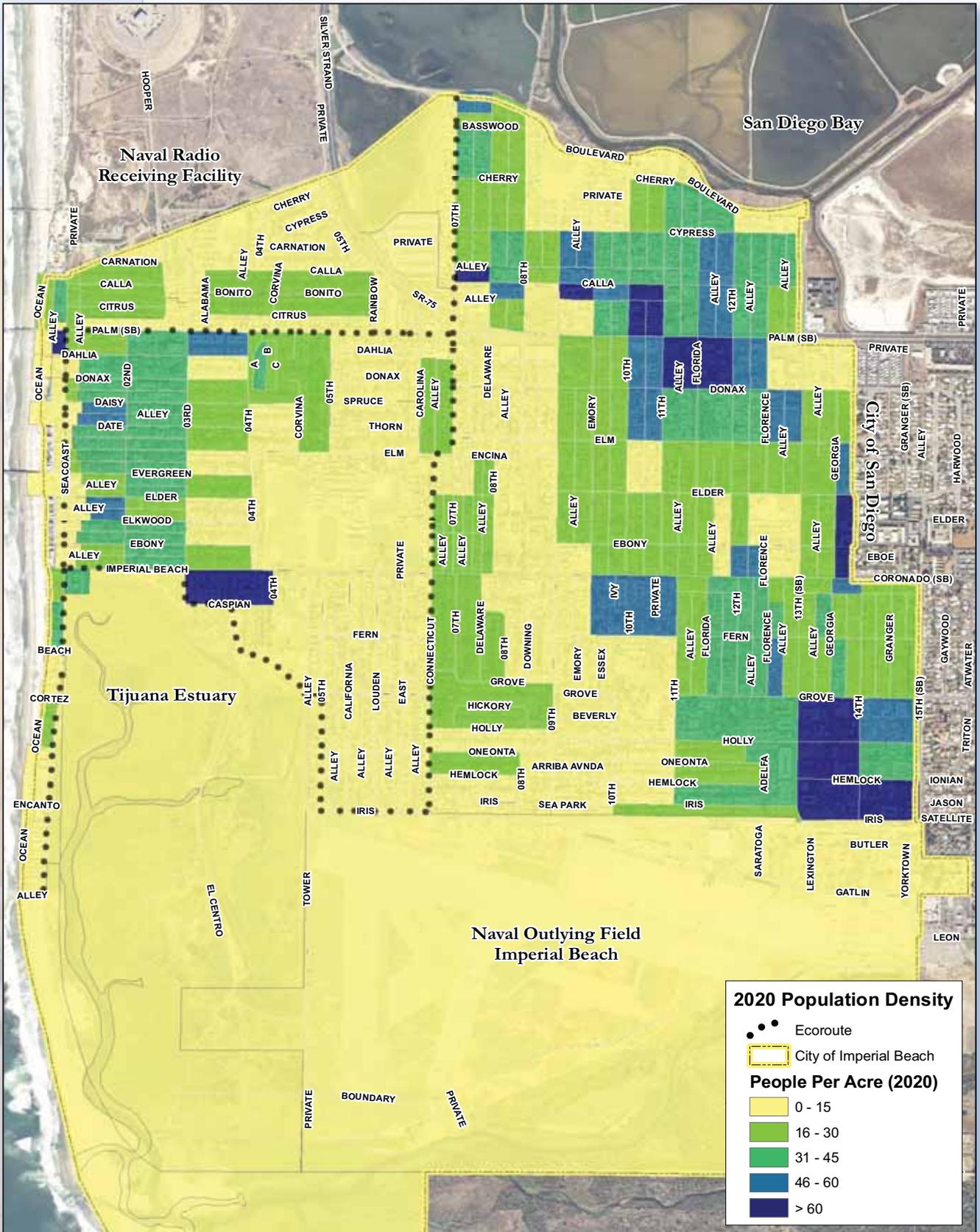




Figure 5.2 2020 Population Density

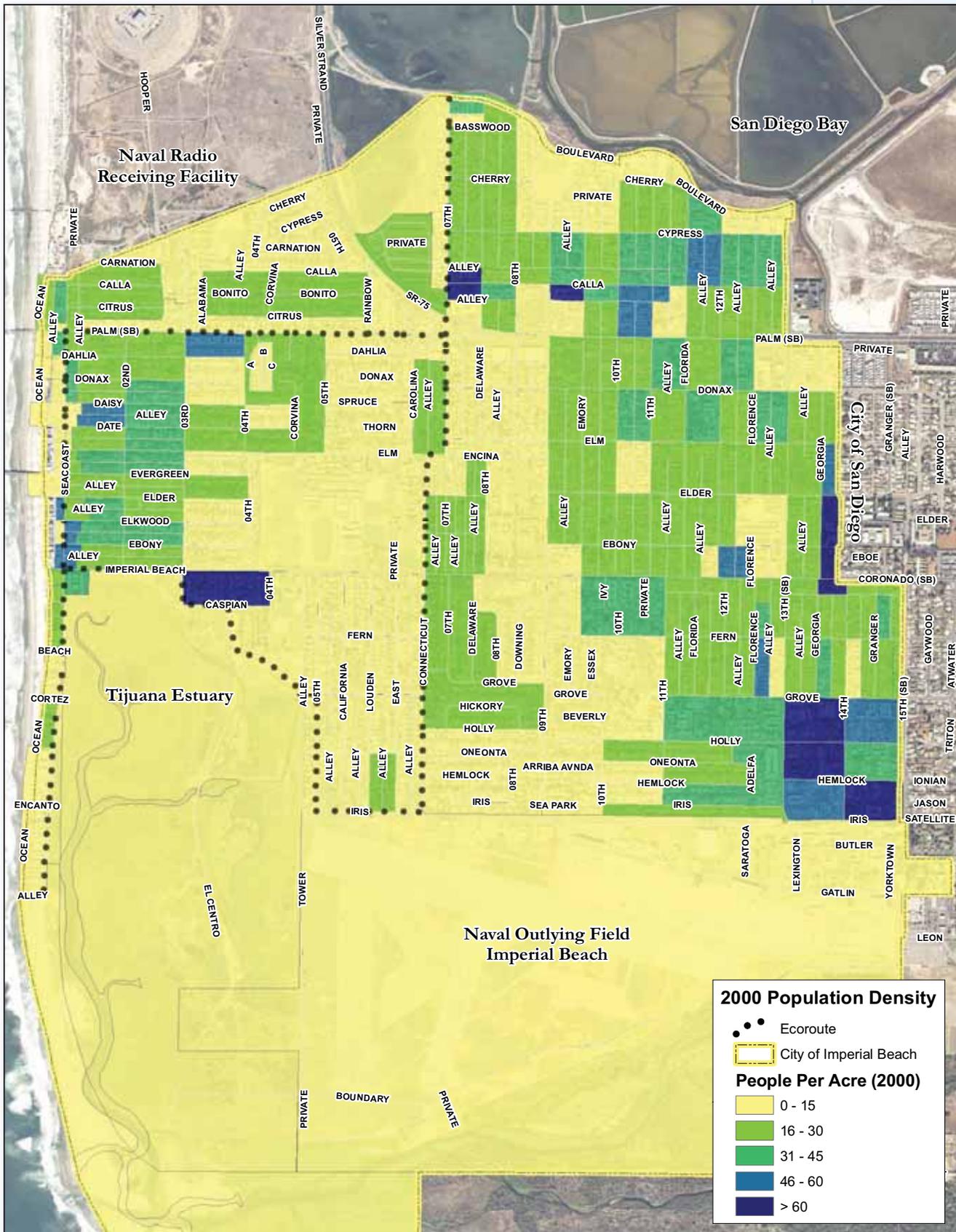


Figure 5.3 2000 Employment Density

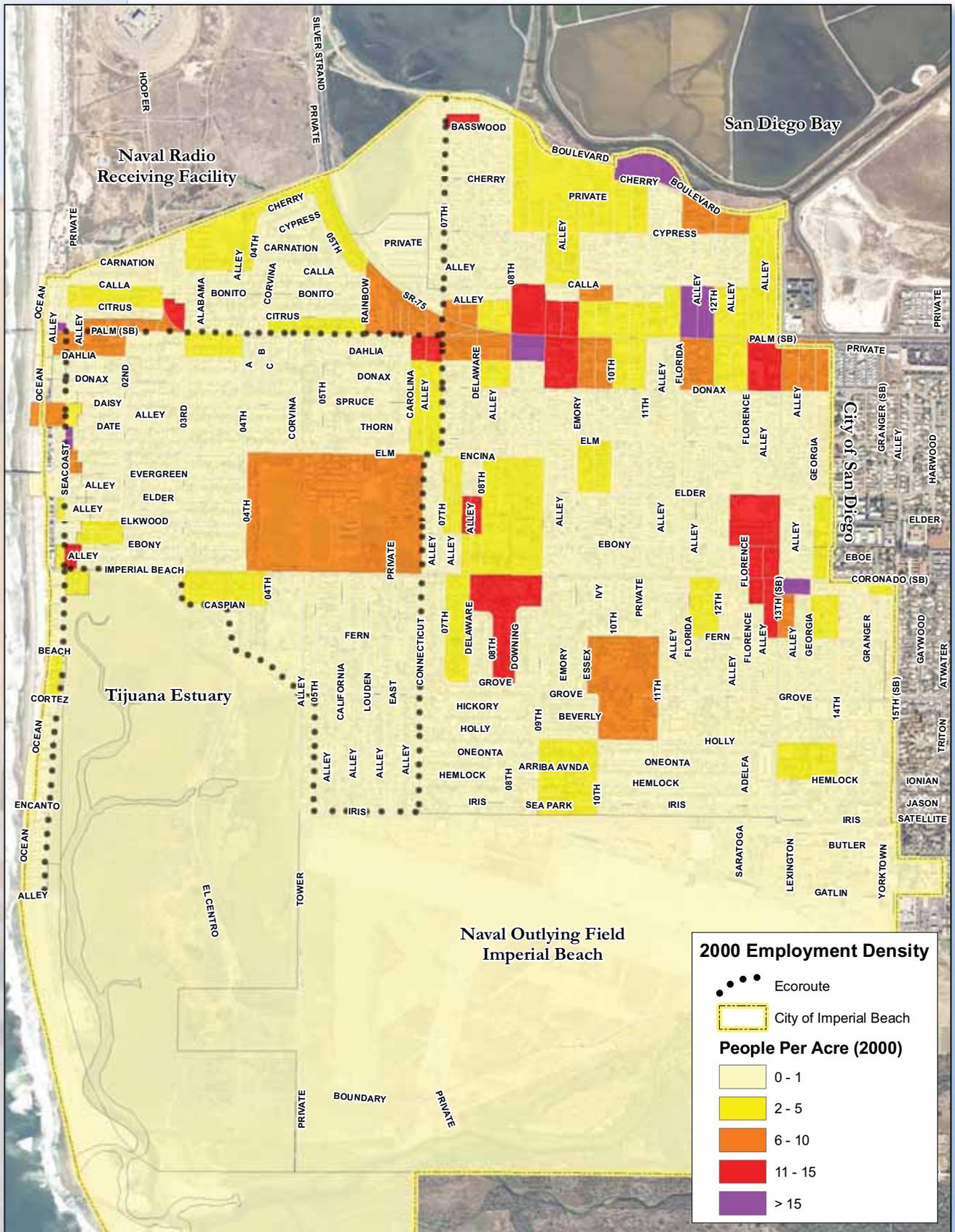




Figure 5.4 2020 Employment Density

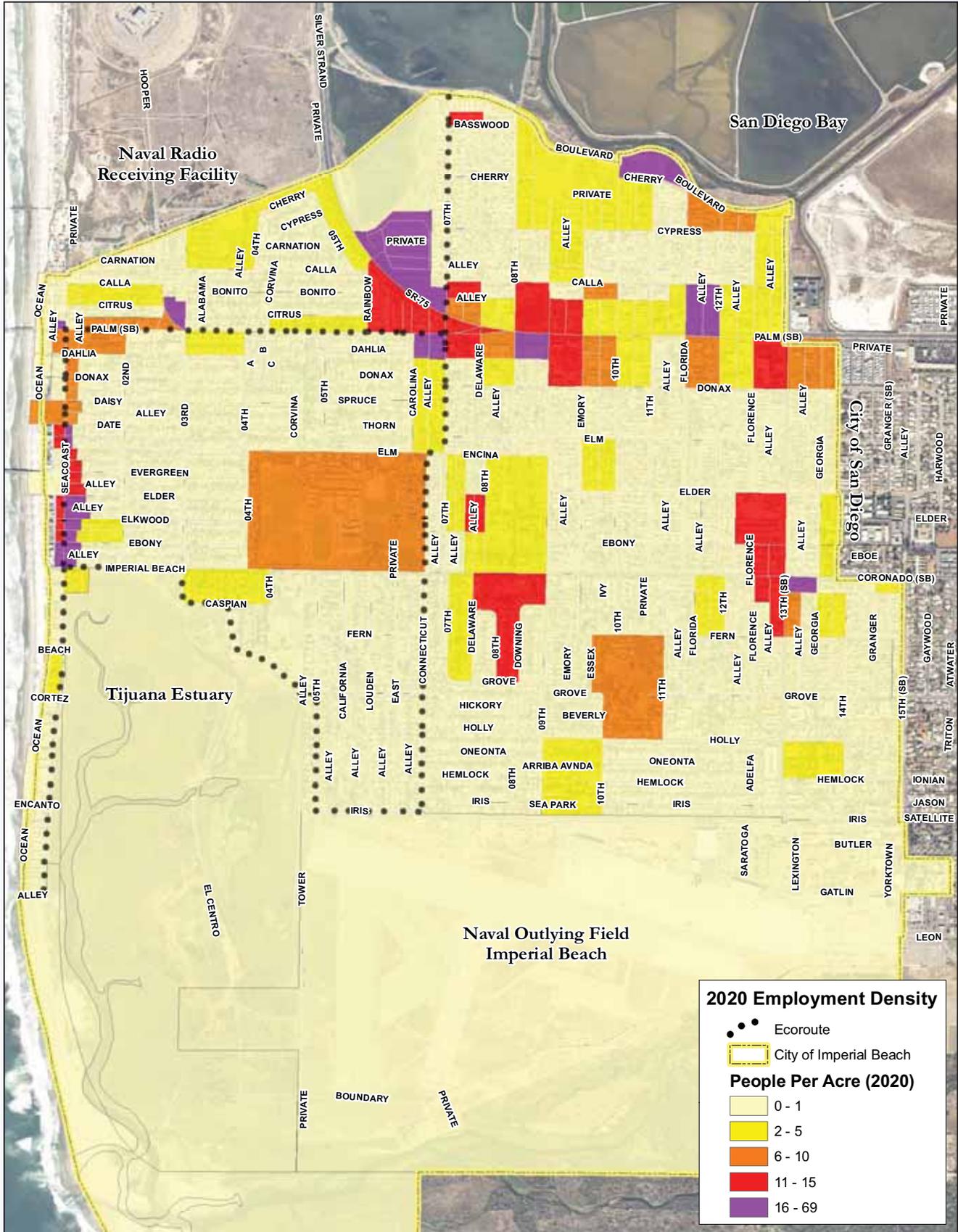
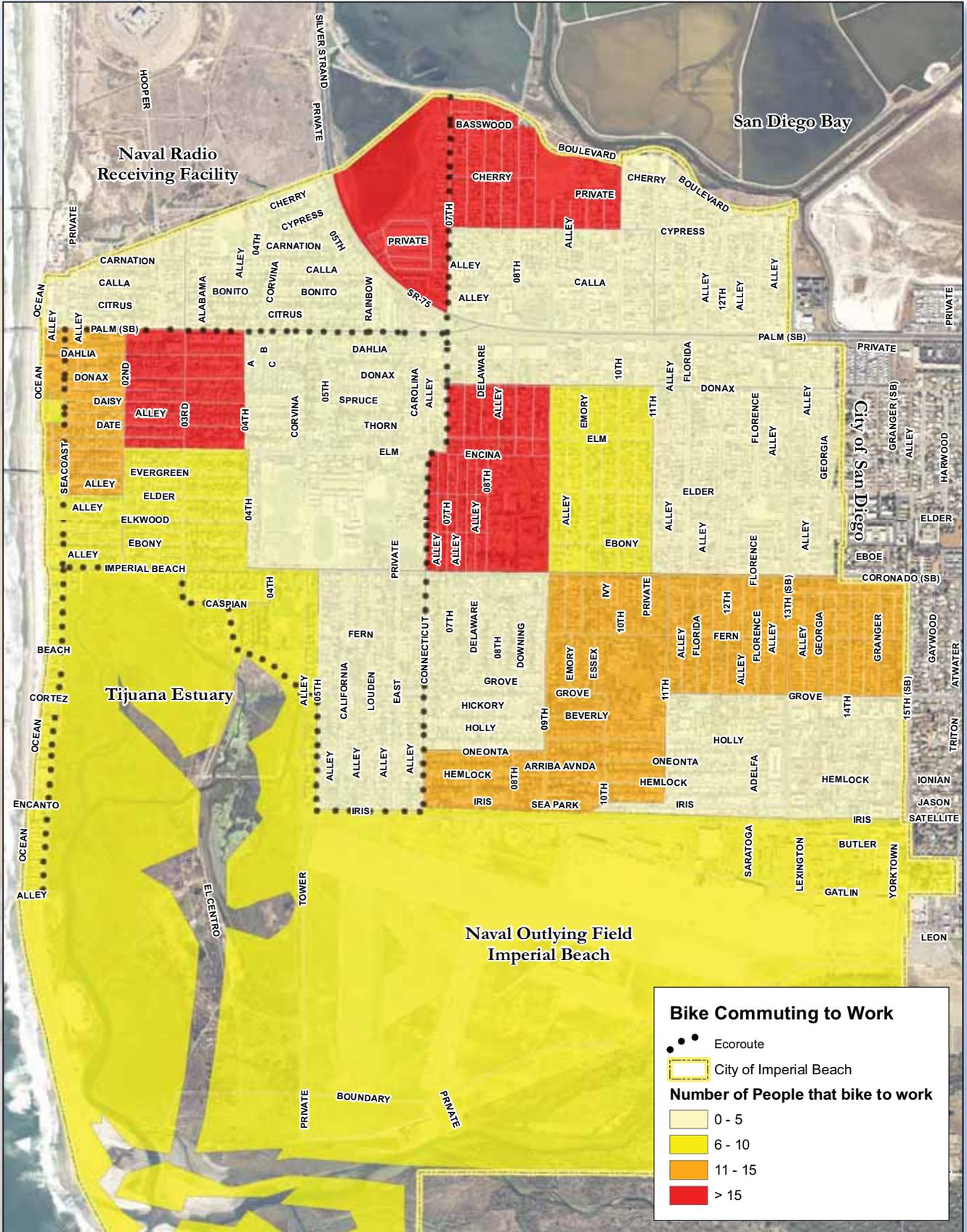




Figure 5.5 Bike Commuting Density





6 Opportunities and Constraints

6.1 Opportunities

Some of the bikeway facilities proposed in this Bikeway Transportation Plan are updates to proposed routes from the City of Imperial Beach General Plan (1994). Whenever possible, routes were proposed to take advantage of opportunities to make connections between bicycle trip origin points and destinations throughout the City. These facilities will allow residents to more safely use their bicycles as another form of transportation, which could lead to many positive changes, such as better health and lower traffic volumes.

6.1.1 Topography

Compared to the other cities in San Diego County, the City of Imperial Beach has very little elevation change. The City is primarily flat to rolling with the highest points being roughly only 30 feet above sea level. This relatively flat terrain is ideal for recreational cycling and commuting as bicyclists of all ages can navigate the streets without daunting hills to climb.



Imperial Beach Blvd. at Seacoast Drive

6.1.2 Street Network

The City's grid street pattern disperses traffic throughout the City, which helps to reduce volumes on major arterials. Cyclists can maneuver through the City using residential and side streets and only have to cross major arterials or collector streets instead of riding on them. For many novice cyclists and children, riding on high speed major arterials is a daunting task and may discourage some people from riding their bikes. The low motor vehicle volumes of most residential streets provide opportunities for cyclists to find the most comfortable route for their individual abilities.

Another advantage the City enjoys in terms of cycling, is that it does not have any freeways that cyclists must cross over or under. The closest freeway crossings to Imperial Beach are on Interstate 5 at Palm Avenue and Coronado Avenue, which are within the City of San Diego.

6.1.3 Destinations

Unknown to many recreational cyclists is the fact that the City of Imperial Beach has many points of interest beyond of the Bayshore Bikeway. Many cyclists riding the Bayshore Bikeway for recreational purposes will only ride to the end of the bikeway and turn around. The Tijuana Estuary, the parks and dining along Seacoast Drive, the beaches and Imperial Beach Pier are a few of the destinations that are not well known, but are easily accessible by bicycle. For the experienced cyclists who regularly train on the Bayshore Bikeway, places to eat and rest are important for long training sessions.



Imperial Beach Pier



Veterans Park



Tijuana Estuary Visitors Center

6 . 2

Constraints

6.2.1 High Traffic Volumes

The major arterials within the City have relatively high average daily traffic counts, particularly Palm Avenue and Imperial Beach Boulevard. These two arterials are the main connections to the City of San Diego to the east and to Interstate 5. The eastern segment of Palm Avenue between SR-75 and 13th Street has the highest traffic volumes of roughly 37,000 vehicles per day. Probably not coincidentally, this segment also has a highest incident of bicycle collisions on Palm Avenue. Traveling west on Palm Avenue to Seacoast Drive, motor vehicle volumes reduce down to 14,000 vehicles per day because many motorists continue north on SR-75 up the Silver Strand to the City of Coronado. Imperial Beach Boulevard east of 9th Street and 13th Street south of Palm Avenue also have high motor vehicle traffic volumes of between 10,000 to 15,000 average daily trips (ADTs). This segment of Imperial Beach Boulevard also experiences a high rate bicycle related collisions. Imperial Beach Boulevard west of 9th and 9th Street south of Palm Avenue have motor vehicle traffic volumes of between 6,000 and 8,100 ADTs. Fortunately, with the City's grid street network, cyclists usually have other route options and can usually avoid riding on major arterials without going too far out of their intended way, depending on their level of ability and desired destination.

6.2.2 Narrow Roadways

In many cases, the roadways within the City are too narrow to add Class 2 bike lanes or adjacent Class 1 bike paths. Residential streets are typically 36 feet wide with parking on both sides, which leaves roughly 10 foot lanes in each direction. Bike lanes are required to be five feet wide if there is a curb present, which would limit the travel lane to only five feet, impossible for vehicles.

Many of the major collectors and arterials are also too narrow to add bike lanes since there is generally on-street parking along these streets. With the exception of west Imperial Beach Boulevard, which has wide lanes in each direction, there are few opportunities to add bike lanes. However, options such as a shared bike lanes and Class 3 bike routes are still feasible.



Seacoast Drive

6.2.3 Lack of Amenities along the Bayshore Bikeway

During field investigations and in community meeting comments, it was noted that amenities such as restrooms, eateries and bike parking were lacking on or near the Bayshore Bikeway. There are no public restrooms at the 7th, 8th, 12th and 13th Street entrances to the Bayshore Bikeway. The closest public restroom along the Bikeway is at Coronado's Ferry Landing. Cyclists and pedestrians alike currently must go to Palm Avenue and either use a gas station or restaurant restroom. This is especially a concern for families that travel the Bayshore Bikeway with their children. The lack of bike parking is also a concern for those who wish to lock up their bikes at the entrances. This would be a particular concern if restrooms, even portable restrooms, were in place. Also noted was a lack of kiosks with maps and information on local restaurants and other Imperial Beach sites of interest. Such informative kiosks and signage would also allow users to choose which route they would like to take to their desired destination.



Bayshore Bikeway at 7th Street



Bayshore Bikeway at 13th Street



Figure 6.1 Topography

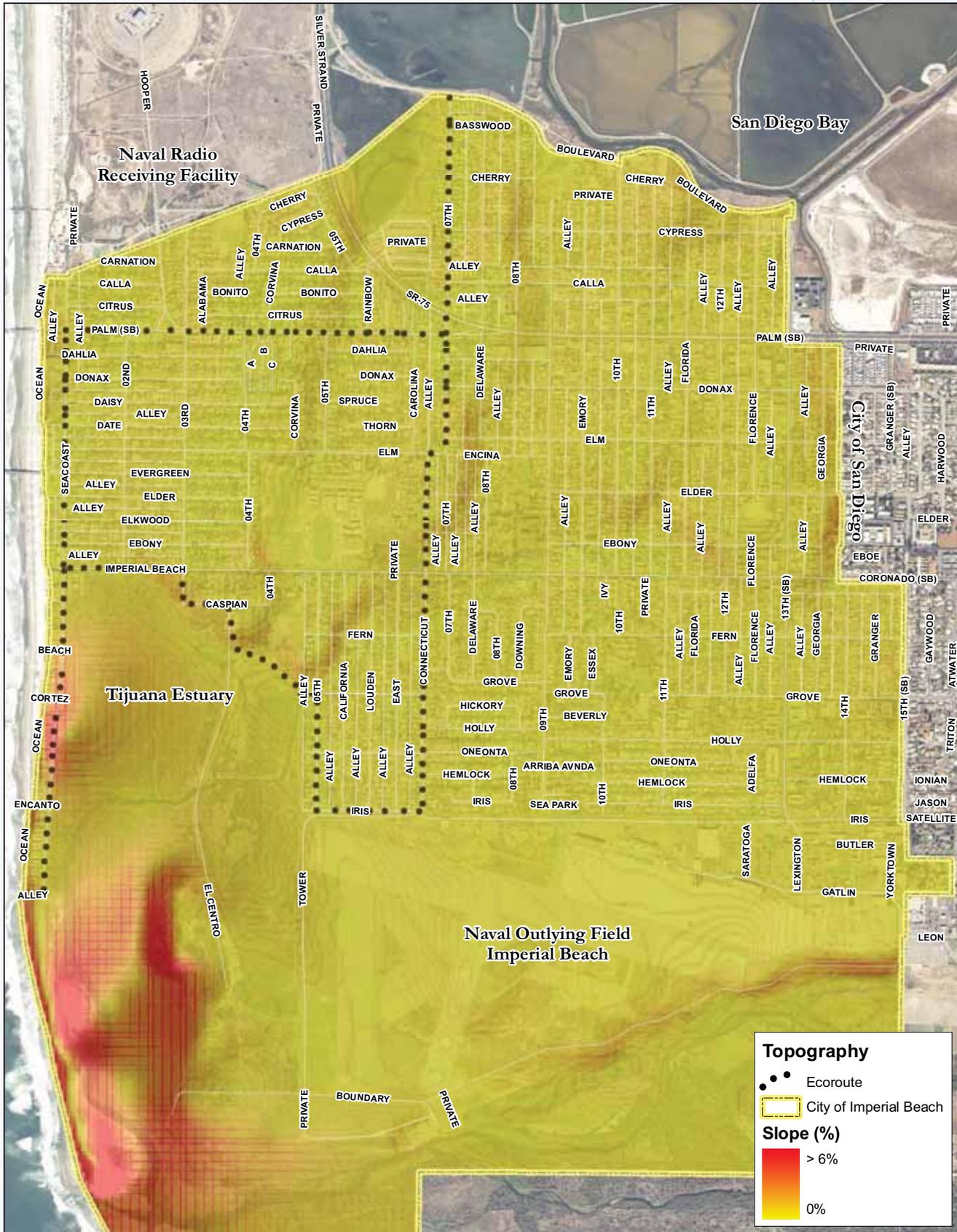
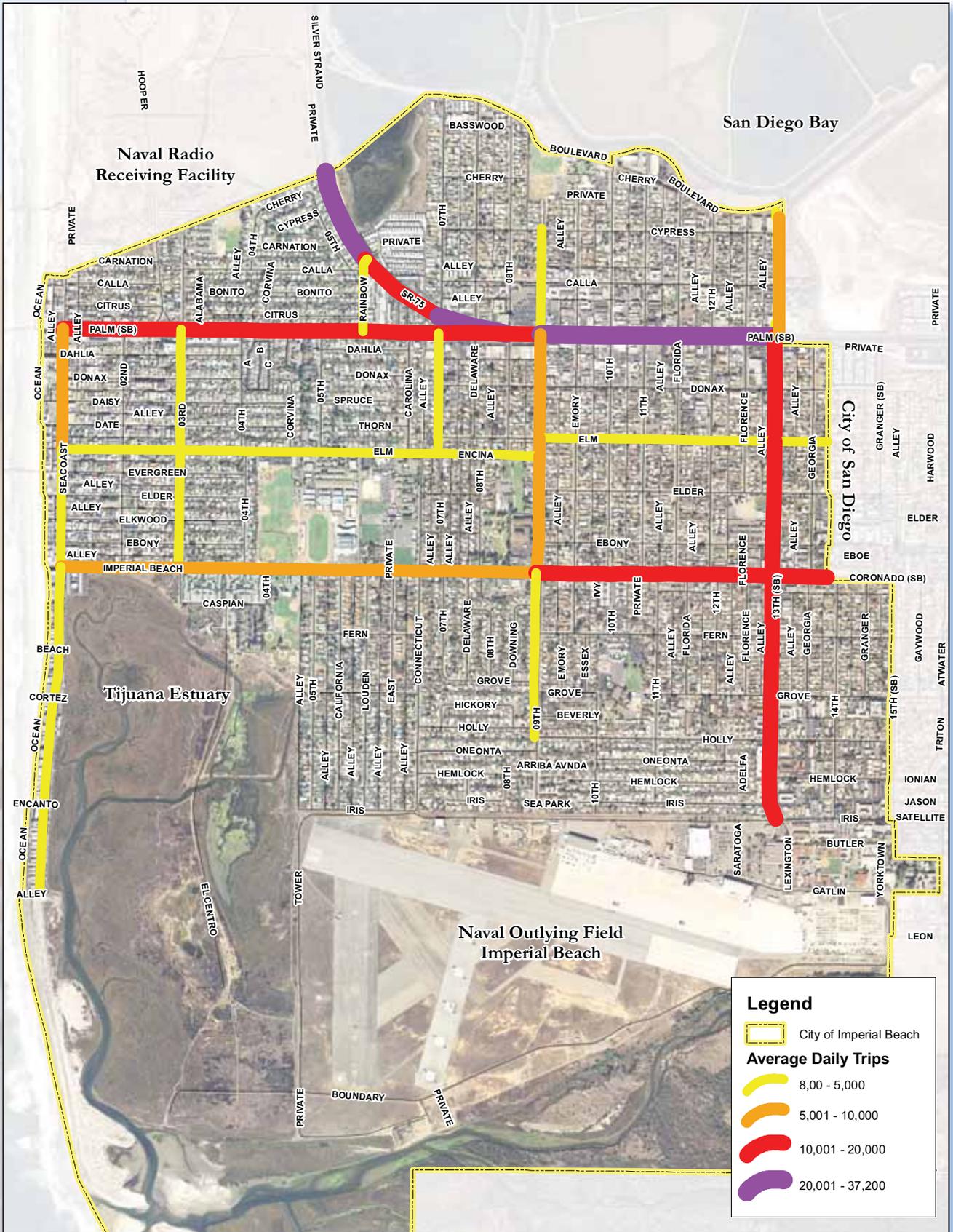


Figure 6.2 Average Daily Trips (ADTs)





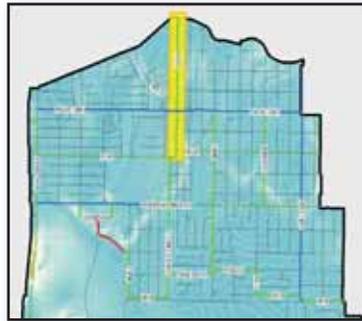


Analysis and Recommendations

7

7.1 Segment Analysis

As the focus of this study, the following segments have been evaluated for bikeway suitability. These segments have been proposed to be added to the City of Imperial Beach bikeway system.



7.1.1 Seventh Street

Segment: Between Bayshore Bikeway and Elm Avenue

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: 1,700

Speed Limit: 25 MPH

Length: 0.8 Miles

Vehicle Lanes: 2

Parking: On-street parallel



View south from the Bayshore Bikeway



Seventh Street at Palm Avenue/Silver Strand - view south below

Seventh Street is a primary access point to the Bayshore Bikeway and the beginning of the programmed Ecoroute Bikeway from the north. This 40 foot wide street is programmed as a Class 3 bike route and is recommended to remain in that configuration due to low traffic volumes and street width. This roadway connects to Palm Avenue, where cyclists can turn onto Palm and follow the Ecoroute to the beach area. One option that can be added to this system is a Class 2 bike lane within the short segment between Palm Avenue and SR-75. This would allow users unfamiliar with the route to more safely pass through this segment with its two signalized intersections. Additional signage would also be appropriate here to inform users of the Ecoroute. This section of roadway passes through an area with a high number of bicycle commuters, according to the US Census Bureau.

7.1.2 Palm Ave





Segment: Between Seacoast Drive and Twelfth Street
Programmed Bicycle Facility: Class 2 Bike Lane and Sidewalk Bicycle Route
Recommended Bicycle Facility: Class 2 Bike Lane and Class 3 Bike Route
ADT: 14,600 – 37,200
Speed Limit: 45 MPH
Length: 1.4 Miles
Vehicle Lanes: 2-6
Parking: On-street parallel



The 1994 Circulation Element of the City General Plan calls for Class 2 bike lanes between Thirteenth and Seventh Streets. Currently, there are no Class 2 facilities in the City of Imperial Beach. Between Seventh and Third Streets, the Circulation Element called for a “sidewalk bicycle route” and Class 2 bike lanes continuing from Third Street to Seacoast Drive. The California Department of Transportation (CALTRANS), the organization that must approve the City’s BTP and also administers federal funding for bicycle projects within the state, does not recognize a sidewalk bicycle route. For this reason alone, it is not recommended that it be implemented.

Additionally, sidewalk bicycle routes are not suited for cyclists since they could encounter conflicts with pedestrians, utility poles, sign posts, benches, etc. Along Palm Avenue, cyclists would face conflicts at driveways, alleys and intersections. A cyclist on a sidewalk is generally not as visible to motorists and can emerge unexpectedly. This is especially true of cyclists who ride in the direction opposing adjacent motor vehicle traffic. Drivers do not expect a vehicle coming from this direction and cyclists are put into awkward situations at intersections where they cannot safely act like a vehicle, but are not in the pedestrian flow either, which creates confusion for other users. Cyclists are generally safer when they operate as roadway vehicles, rather than as pedestrians.



View west at Rainbow Drive

Class 2 bike lanes and Class 3 bike routes are recommended because ADTs are high enough to warrant a separate bicycle facility and will also provide a traffic calming effect. Due to current projects and right-of-way issues, Class 2 bike lanes are recommended between Third Avenue and Delaware Street and between Florida Street and Thirteenth Street. Class 3 bike routes are recommended between Seacoast Drive and Third Street and between Delaware Street and Florida Street. Because posted speed limits are in excess of 35 MPH, shared lane road markings or ‘Sharrows’ can not be used on Palm Avenue. The Class 3 bike routes segments will complete the bikeway system on Palm Avenue even though they are two separate facility types. Cyclists who ride into the City will have a better sense of safety riding along Palm Avenue to access the beach or other attractions. Whenever possible, bicycle-actuated signals should be placed within the bike lane so traffic signals will recognize bicycles.

7.1.3 Seacoast Drive





Segment: Between Palm Avenue and Cul-de-Sac
Programmed Bicycle Facility: Class 3 Bike Route
Recommended Bicycle Facility: Class 3 Bike Route with Shared Bike Lane Markings
ADT: 2,000 – 5,300
Speed Limit: 25-35 MPH
Length: 1.2 Miles
Vehicle Lanes: 2
Parking: On-street parallel, angled and 90-degree parking



View south from Palm Avenue



View north from the cul-de-sac



View north from Imperial Beach

The shared lane marking is an addition to the typical signage only Class 3 bike route implementation. It is an effective, flexible alternative to striped bike lanes and can be used to improve cyclist safety and make connections between bike lanes, greenways and bridge paths on streets too narrow for standard five-foot wide bike lanes. In 2003, the San Francisco Department of Parking and Traffic surveyed motorists and cyclists about “shared lane” bike symbols and found that 80% of respondents understood the symbols to mean “share the road” and drive and ride cautiously.

This shared lane marking can be implemented along Seacoast Drive where the roadway is relatively narrow and on-street parking is present. The programmed bicycle facility for Seacoast Drive is a Class 3 bike route where signage along the street will inform drivers that the road at anytime may have numerous cyclists. Because of the on-street parking, parked cars can obstruct the view of signs informing drivers of potential cyclists. On such a narrow roadway, cyclists wishing to stay out of the way of motor vehicles often ride too close to parked vehicles and risk being hit by opening vehicle doors (being “doored”). To help alleviate this problem, a logo is placed on the roadway surface within the shared travel lane. The use of this pavement logo in conjunction with “Share the Road” signs and bicycle route signs can reinforce that cyclists belong on the road and will increase driver awareness of cyclists. Where there is a traffic signal, a bicycle-actuated signal, such as a diagonal quadrupole loop, can be installed on streets with high levels of cycling activity.



Example of a Shared Lane symbol in New York City



7.1.4 Imperial Beach Boulevard

Segment: Between Seacoast Drive and City of San Diego City Limit

Programmed Bicycle Facilities: Class 2 Bike Lane between Seacoast Drive and Third Street, Class 3 Bike Route between Third Street and City Limit

Recommended Bicycle Facility: Class 2 Bike Lane

ADT: 8,000 – 15,000

Speed Limit: 35 MPH

Length: 2 Miles

Vehicle Lanes: 2-4

Parking: On-street parallel



Imperial Beach Boulevard is programmed as a Class 2 bike lane between Seacoast Drive and the City limit with the City of San Diego. This bicycle facility is still feasible, but on-street parking from Connecticut Street to the City limit will need to be removed or traffic lanes reduced from two lanes to one. High motor vehicle traffic volumes along this major collector street warrant a specific bicycle facility because Imperial Beach Boulevard also experiences a high rate of bicycle related collisions. As a major east-west connection, this facility is another option of travel if the destination is the City of San Diego to the east or the beaches to the west. Also along Imperial Beach Boulevard are major destination points such as the Tijuana Estuary, Mar Vista High School, City Hall, Veterans Park, Sports Park and the public library.



View west from Florida Street

Due to the wide one lane roadway between Seacoast Drive and Connecticut Street, a Class 2 bike lane would fit between the travel lane and the on-street parking. The current width of the roadway is 64 feet and parking, medians and lane widths vary along the roadway. Parking would have to be removed in the eastbound direction between Third and Connecticut Streets because the roadway width is not as wide as in the west bound direction. The westbound direction can accommodate a bike lane in its current configuration.



View east from Seacoast Drive



7.1.5 State Route 75 and Palm Avenue

Segment: Between Rainbow Drive and Delaware Street

Programmed Bicycle Facilities: Class 2 Bike Lane

Recommended Bicycle Facility: Class 2 Bike Lane

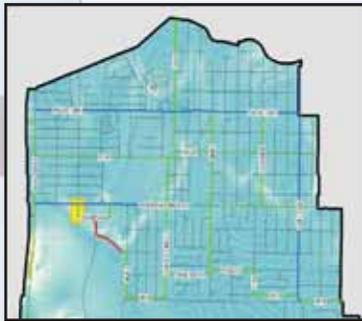
ADT: 25,000 – 33,000

Speed Limit: 45 MPH

Length: 1,753 Feet

Vehicle Lanes: 4

Class 2 bike lanes are recommended through this section to connect the proposed Class 1 bike paths along the Silver Strand to Palm Avenue. Bike lanes will also act as a traffic calming measure when entering the City from State Route 75.



7.1.6 Third Street

Segment: Between Imperial Beach Boulevard and Caspian Way

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

Speed Limit: 25 MPH

Length: 388 Feet

Vehicle Lanes: 2

Parking: None

This two-way street connects Imperial Beach Boulevard and Caspian Way. It does not have any on-street parking and is too narrow to add a Class 2 bike lane. Its low motor vehicle traffic volumes therefore warrant a Class 3 bike route on this roadway segment.



View south from Imperial Beach Boulevard



7.1.7 Caspian Way

Segment: Between Third Street and Fourth Street

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

Speed Limit: 25 MPH

Length: 0.2 Miles

Vehicle Lanes: 1-2 (One way from Tijuana Estuary entrance to Fourth Street)

Parking: On-street parallel with 90-degree parking between Tijuana Estuary entrance and Fourth Street





Caspian Way is a two-way street between Third Street and the Tijuana Estuary Visitors Center entrance and becomes one-way westbound between Fourth Street and the Tijuana Estuary Visitors Center entrance. It is recommended that Caspian Way east of the Visitors Center entrance be converted to a two-way street to allow cyclists a continuous route and access to the Sports Park and the Visitors Center. The 90-degree parking along the south side of Caspian will need to be removed to accommodate the Class 3 bike route. On-street parking on the south side will need to be converted to eastbound on-street parking. Bicycle travel in the opposite direction of traffic is deemed unsafe since drivers may not be expecting bicycle traffic coming in their direction or even present on the road. Riding a bicycle against traffic is contrary to the rules of the road and the leading cause of bicycle/motor vehicle collisions.

Because this section is very short, another alternative is that signage may be sufficient to allow cyclists to more safely travel in the opposite direction as long as drivers are warned ahead of time to share the road and yield to oncoming bicycle traffic. The 90-degree parking would have to be redesigned to angled parking to allow drivers backing out the ability to see oncoming cyclists heading east from the Visitors Center. Obstructions to line-of-sight from cyclists turning eastbound on Caspian will need to be addressed. Improving sight lines is important at the Caspian Way and Visitors Center intersection.



View east from 3rd Street



View west from 4th Street

7.1.8 Fourth Street

Segment: Between Caspian Way and Imperial Beach Boulevard

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

Speed Limit: 25 MPH

Length: 388 Feet

Vehicle Lanes: 1

Parking: On-street parallel and angled parking



Fourth Street is an important connection to the overall flow of the bikeway system. Currently, Fourth Street is one-way with the Sports Park to the east and multi-family residential to the west, with angled and parallel parking on both sides of the street. Because of the one-way nature of the street, a bicycle facility cannot be implemented for cyclists to travel in the opposite direction to access Imperial Beach Boulevard from the Tijuana Estuary Visitors Center unless they go through the Sports Park. Recommendation is to allow two-way access so the street can accommodate a Class 3 bike route. The angled or parallel parking will have to be re-designed or removed to allow for a bicycle facility.





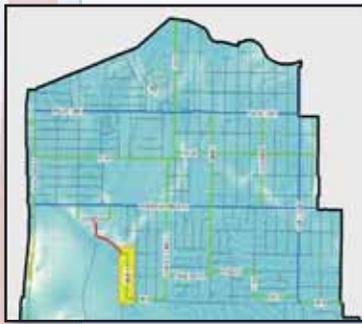
7.1.9 Off-street route through Tijuana Estuary

Segment: Between Caspian Way and Grove Avenue
Programmed Bicycle Facility: Class 3 Bike Route
Recommended Bicycle Facility: Class 1 Bike Path
ADT: N/A
Speed Limit: N/A
Length: 0.3 Miles
Vehicle Lanes: N/A
Parking: N/A



With permission from the Department of Fish and Wildlife and California State Parks, a Class 1 bike path is recommended from the Tijuana Estuary Visitors Center Parking lot along the paved path and terminates onto Grove Avenue. This would complete the Ecoroute since this is currently the only existing unpaved segment of the route. The bike path will allow those on traditional road bikes and even wheelchairs to make the connection and continue on the Ecoroute, or just traverse the north end of the estuary.

View east from the TENWR Visitors Center



7.1.10 Fifth Street

Segment: Between Grove Avenue and Iris Avenue
Programmed Bicycle Facility: Class 3 Bike Route
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.3 Miles
Vehicle Lanes: 2
Parking: On-street parallel



This residential street connects the Grove Avenue estuary entrance to the Iris Avenue estuary entrance and is also part of the Ecoroute.

View south from Grove Avenue





7.1.11 Iris Ave

Segment: Between 5th Street and Connecticut Street

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

Speed Limit: 25 MPH

Length: 0.2 Miles

Vehicle Lanes: 2

Parking: On-street parallel, north side only

The western terminus of Iris Avenue is a three car parking lot with one disabled space at an access point to the Tijuana Estuary trail system. Bicycles are allowed on the southern trail segments. A map kiosk and signage exists to assist trail users. Iris Avenue runs along the northern fence line of the Naval Outlying Landing Field (NOLF) Imperial Beach. The north side of the street accommodates street parking but on the south side, the NOLF fence lies immediately adjacent to the roadway and parking is not allowed.



View east from 5th Street

7.1.12 Connecticut Street

Segment: Between Iris Avenue and Elm Avenue

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

Speed Limit: 35 MPH

Length: 0.9 Miles

Vehicle Lanes: 2

Parking: On-street parallel

This north-south segment of the Ecoroute connects Iris and Elm Avenues and is adjacent to single-family residential. If bicycle volume is increased, it can be transformed into a Class 3 route with shared lane markings.



View south from Elm Avenue





7.1.13 Oneonta Avenue

Segment: Between Connecticut Street and 9th Street
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.3 Miles
Vehicle Lanes: 2
Parking: On-street parallel

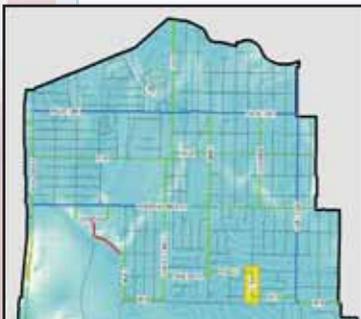
This road is the Ecoroute connection between Connecticut and 9th Streets and accesses the bus stops on Ninth Street and Holly Avenue. The surrounding land use is single-family residential, and according to the U.S. Census, this segment of Oneonta Avenue supports a significant number of bicycle commuters.



7.1.14 Holly Avenue

Segment: Between 9th Street and 11th Street
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.3 Miles
Vehicle Lanes: 2
Parking: On-street parallel

This section of Holly Avenue has two bus tops and is adjacent to single-family residential. This segment connects Ninth and Eleventh Streets.



7.1.15 Eleventh Street

Segment: Between Holly Avenue and Iris Avenue
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.1 Miles
Vehicle Lanes: 2
Parking: On-street parallel

Eleventh Street connects Holly and Iris Avenues and has three bus stops along its short span. The area west of Eleventh Street supports a medium to high number of bicycle commuters, according to U.S. Census data.



7.1.16 Iris Avenue

Segment: Between 11th Street and 13th Street
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.3 Miles
Vehicle Lanes: 2
Parking: On-street parallel

This section has two bus stops with adjacent single-family residential land use. This segment connects with Thirteenth Street and access to Imperial Beach NOLF.





7.1.17 Iris Avenue

Segment: Between 13th Street and City Limit
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: 0.2 Miles
Vehicle Lanes: 2
Parking: On-street parallel, north side only

Iris Avenue connects 13th Street to Satellite Boulevard in the City of San Diego. This is the southernmost bikeway connection with the City of San Diego. Traffic is very light on this roadway segment and a Class 3 bike route would be sufficient as a bicycle facility since it connects to Imperial Beach NOLF and Thirteenth Street. Projected population density along this section of Iris Avenue is also one of the highest in the City and therefore probably warrants a bicycle facility.



7.1.18 Thirteenth Street

Segment: Between Bayshore Bikeway and Iris Avenue
Programmed Bicycle Facility: Class 2 Bike Lane between the Bayshore Bikeway to 13th Street
Recommended Bicycle Facility: Class 2 Class 2 Bike Lane between the Bayshore Bikeway and Iris Avenue
ADT: 5,000 – 12,500
Speed Limit: 35 MPH
Length: 1.3 miles
Vehicle Lanes: 2-4
Parking: On-street parallel and 90-degree parking



This fairly high volume street is the easternmost north-south route in the City. Because of the number of street traffic and bicycle related collisions that occur on this segment, a Class 2 bike lane is recommended to assist in traffic calming and to provide a separate facility for cyclists wanting to access the Bayshore Bikeway from the east. On-street parking would have to be removed to accommodate the bike lanes.



View south from Cypress Avenue



7.1.19 Florida Avenue

Segment: Between Palm Avenue and Imperial Beach Boulevard

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 3 Bike Route

ADT: <800

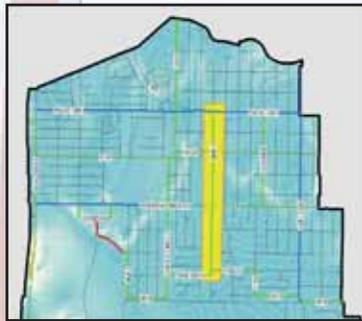
Speed Limit: 25 MPH

Length: 0.5 Miles

Vehicle Lanes: 2

Parking: On-street parallel

This roadway would be another north-south route within a mix of multi-family and single-family land use. This segment is a connection across Palm Avenue between Ninth and Thirteenth Streets. Projections indicate that land use along Florida Street will become primarily multi-family with its associated population increase. This route would serve as another north-south option between Palm Avenue and Imperial Beach Boulevard. Florida Street does not have a direct connection across Imperial Beach Boulevard so cyclists will have to use Thirteenth or Ninth Streets to cross it. However, there is a direct crossing at Palm Avenue. There are stop signs on Florida Avenue and none on the cross streets. This could be a hazard if novice cyclists and children did not follow traffic laws and ignored the stop signs because drivers coming from the east or west could collide with the cyclists since they have the right-of-way and are not required to stop. For this to be a viable bicycle facility, all the intersections should become four-way stops.



7.1.20 Ninth Street

Segment: Between Palm Avenue to Holly Avenue

Programmed Bicycle Facility: Class 3 Bike Route

Recommended Bicycle Facility: Class 3 Bike Route

ADT: 3,800 – 6,700

Speed Limit: 25-35 MPH

Length: 0.9 Miles

Vehicle Lanes: 2-4

Parking: On-street parallel and angled parking

Ninth Street is a central north-south connection between the Palm Avenue and Imperial Beach NOLF to the south. A Class 3 bicycle route is recommended here because traffic volume is not very high and the surrounding area's land use is primarily residential. Because of the on-street parking, shared lane markings can also be used along Ninth Street.



View south from Elm Avenue





7.1.21 Elm Avenue

Segment: Between Seacoast Drive and City of San Diego City Limit

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 3 Bike Route and eventually a Shared Bike Lane depending on level of use

ADT: 1,500 – 3,100

Speed Limit: 25 MPH

Length: 1.4 Miles

Vehicle Lanes: 2

Parking: On-street parallel



Elm Avenue was suggested as a bicycle facility in community meeting comments, including designation as anything from a Class 3 bike route to a Class 1 bike path. After further field analysis, it is apparent that Elm Avenue does have an intrinsic benefit as a bicycle facility. It is a low volume east-west alternative to Imperial Beach Boulevard and Palm Avenue midway between them. Though there are a number of alleys and street intersections to contend with, this segment's width, low traffic volume and connectivity makes it a viable bicycle facility. However, Elm Avenue is only 36 feet wide with on-street parking on both sides. This leaves only 20 feet of motor vehicle lane width (10 feet each way) and therefore not enough room for a bike lane. However, most of Elm Ave is an 80-foot right-of-way (22 feet from curb to property line on each side).



View east from Connecticut Street

The surrounding land use is residential so land acquisition for a Class 1 bike path is not a practical solution. A recommendation for this route is a Class 3 bike route. If bicycle use along Elm Avenue increased as a bike route, shared lane markings can help prevent cyclists from riding in the parked vehicles' "door zone" so they will ride further out in the street than immediately adjacent to parked cars. The shared lane markings are most useful where parking turnover is high, so this may not be necessary on this segment.

7.1.22 State Route 75: Alternative #1

Segment: West side of State Route 75 to Silver Strand Boulevard

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 1 Bike Path

ADT: N/A

Speed Limit: N/A (65 MPH on SR-75)

Length: 0.75 Mile

Vehicle Lanes: N/A

Parking: N/A



This proposed section is to provide an access to Seacoast Drive without having to traverse Palm Avenue. A pedestrian bridge is recommended to allow users on the Bayshore Bikeway to cross SR-75 safely and onto a bike path on the west side of SR-75. A traffic signal and crosswalks could also be implemented, but traffic calming measures will need to be installed because the posted speed limit on SR-75 is 65 MPH. A bridge would allow an uninterrupted flow of traffic for cyclists, pedestrians and vehicles alike. The right-of-way along SR-75 is fairly narrow and acquisition of land from the US Navy will need to be explored. The existing fence would need to

be moved into the Naval Radio Receiving Facility (NRRF) to allow the eight-foot wide bike bath with a two-foot buffer from the road. (For any buffer width of less than 50 feet, state law requires a physical barrier, such as a guardrail.)

As the bike path enters the City, the route turns westward along the northern City limits behind private residences. Here too, land acquisition from the Navy to allow a bike path will need to be coordinated because this private property lies adjacent to the NRRF. The bike path would end on Silver Strand Boulevard, which is also the entrance to the NRRF. An access onto Third Street is recommended for use by residents to access West View Elementary School. Utilization of the existing perimeter road along this route would be a viable option if an agreement can be reached with the Navy.

7.1.23 State Route 75: Alternative #2

Segment: West side of State Route 75 to Rainbow Drive

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 1 Bike Path

ADT: N/A

Speed Limit: N/A

Length: 0.6 Mile

Vehicle Lanes: N/A

Parking: N/A



This route is a continuation of State Route Alternative #1 if an agreement with the Navy to provide access to Silver Strand Boulevard can not be reached. Users would travel further south to Rainbow Drive where it continues as a Class 3 Bike Route to access Palm Avenue. This alternative also allows a shorter route to Palm Avenue and to the beaches than continuing on to Seventh Street and Palm Avenue. This segment is wide enough to accommodate an eight-foot path with two-foot buffers on each side.

7.1.24 State Route 75: Alternative #3

Segment: East side of State Route 75 to Rainbow Drive

Programmed Bicycle Facility: None

Recommended Bicycle Facility: Class 1 Bike Path

ADT: N/A

Speed Limit: N/A

Length: 0.8 Mile

Vehicle Lanes: N/A

Parking: N/A



This proposed route would be the continuation of the existing Bayshore Bikeway and would be a direct connection to Rainbow Drive. This route allows users to bypass the Seventh Street access and a more direct route to the Ecoroute via Rainbow Drive to Palm Avenue and less time on City streets. Due to the potential impact of adjacent wetlands, an EIR may need to be developed to determine environmental impacts and feasibility.





7.1.25 Rainbow Drive

Segment: State Route 75 to Palm Avenue
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 2 Bike Lane
ADT: 800 - 5,000
Speed Limit: 35 MPH
Length: 827 Feet
Vehicle Lanes: 2
Parking: On-street parallel



This short segment connects the proposed Class 1 bike paths to Palm Avenue. Adjacent land use is commercial on the east side and residential on the west side. Due to the low ADTs and adjacent land use, a Class 2 bike lane is recommended to connect Palm Avenue and the Class 1 bike path.

7.1.26 Third Avenue (West View Elementary School)

Segment: Third Street between West View Elementary and Palm Avenue
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: <800
Speed Limit: 25 MPH
Length: .22 Miles
Vehicle Lanes: 2
Parking: On-street parallel



This short segment connecting the adjacent neighborhoods and Palm Avenue with West View Elementary School.

7.1.27 Oneonta Elementary School route

Segment: Fern Avenue, 11th Street, Essex Street, Grove Avenue and 10th Street
Programmed Bicycle Facility: None
Recommended Bicycle Facility: Class 3 Bike Route
ADT: 800 - 1,000
Speed Limit: 25 MPH
Length: .72 Miles
Vehicle Lanes: 2
Parking: On-street parallel



This route connects the adjacent neighborhoods with Oneonta Elementary School. This route connects to recommended routes on Imperial Beach Boulevard, Ninth Street and Holly Avenue.



7.2 Other Segments Analyzed

7.2.1 Tenth Street

Segment: Between Palm Avenue and Imperial Beach Boulevard

Programmed Bicycle Facility: None

Recommended Bicycle Facility: None

ADT: <800

Speed Limit: 25 MPH

Length: 0.5 Miles

Vehicle Lanes: 2

Parking: On-street parallel



View north from Palm Avenue. Tenth Street does not travel through the Palm Avenue intersection.

Tenth Street was proposed at the community meeting, followed by field review. This street is a low volume north-south connection, but it does not connect across Palm Avenue or Imperial Beach Boulevard because medians within these roadways limit connectivity. Ninth Street and Florida Avenue are only a few blocks away and do cross these two arterials. At the intersections of Tenth Street and Elder and Elm Avenues, there are stop signs on Tenth Street and none on the cross streets. These are the same safety issues that face Florida Avenue. Florida Avenue is a more central bicycle facility between Ninth and Thirteenth Streets and crosses Palm Avenue to access the Bayshore Bikeway. For these reasons, Tenth Street was not chosen as a bicycle facility.

7.2.2 Alleys

It was suggested at the community meeting that the City of Imperial Beach many alleys could be designated as bicycle facilities, so additional field work was performed to address this suggestion.

It was found that surfaces vary from alley to alley, but the majority are paved. However, many are either hard packed dirt or gravel, and there is occasionally debris and vegetation narrowing the pathway.

Using the alleys could pose some safety issues for cyclists. Because of the grid street network, there are many mid-block crossings where the alleys intersect the streets. Fences sometimes extend out to the sidewalk and block cyclist and pedestrian line-of-sight to the crossing street. If cyclists and pedestrians were to use alleys, they would be out of sight from passersby and if help was needed, they might not be seen and quickly attended to.

There would also need to be traffic calming measures and signage on all streets in which they intersect. Potentially, traffic signals may need to be installed at high volume intersections.

In addition, there is some question whether alleys can be regarded as legal roadways. Finally, if bicycle facilities were installed on alleys, the City would need to maintain them to street maintenance standards.





7.3 Intersection Recommendations

7.3.1 Palm Avenue at Ninth Street and Thirteenth Street

The intersections of Ninth Street, Thirteenth Street on Palm Avenue are heavily used and currently incorporate crosswalk signals in all directions. Cyclists using these intersections rarely have to activate the crosswalk signals because there are usually motor vehicles on all directions to activate the signals.

In older communities such as the City of Imperial Beach, a regular street grid pattern can provide a variety of alternative routes for both cyclists and motorists. Even so, the contrast between traffic on residential streets and that found on arterials is significant, though crossings may be less difficult than in other cities with a more suburban layout. Palm Avenue has three lanes in each direction with parking on both sides. In these situations, cyclists can edge out near the intersection to see beyond the parked cars. As a result, crossing the street is reduced by about 16 feet (eight foot parking stalls on both sides).

From workshop attendees, it was noted that these intersections are not very pedestrian friendly. Recommendations include crosswalks and signals that allow more crossing time. This would also be helpful for cyclists so they have a more time to get across, especially with children. Thirteenth Street would benefit from longer signal phases and a crosswalk since the Bayshore Bikeway currently ends at Thirteenth Street. This can attract users to come into the City and utilize local restaurants and amenities.

7.3.2 Seventh Street and Palm

The Seventh Street crossing of SR-75 and Palm Avenue could be considerably improved for cyclists with appropriate signage, particularly in the southbound direction. The apparent complexity of the intersection and crossing length may make it difficult for first time cyclists to readily negotiate. Besides freestanding signage, banners and symbols painted on the roadway surface, a modified traffic signal interval may be desirable.

Since the short segment of Seventh Street north of Palm Avenue and south of SR-75 widens to 46 feet, a short Class 2 bike lane segment could be striped here with appropriate pavement markings, incorporating the Ecoroute Bikeway symbol, to help direct cyclists across the intersection.

During the workshop, tunnels were mentioned as an option to route cyclists below the Palm Avenue and SR-75 intersection. Although this would be a safer crossing, the flat terrain would require raising the roadway surface with considerable ramping to meet the needed height. The cost and construction would not be practical unless the bicycle route was much more extensively used, and even



Thirteenth Street view north from Palm Avenue



Palm Avenue view east from 7th Street



Bayshore Bikeway at 8th Street



Bayshore Bikeway at 7th Street



Bayshore Bikeway at 13th Street



***Bayshore Bikeway at 10th Street.
Programmed to be an access to the
Bayshore Bikeway***

then, a bridge may be more feasible, due to a likely high water table in the area.

7.3.3 Bayshore Bikeway at Seventh and Thirteenth Streets

The handling of this intersection is critically important to draw cyclists into Imperial Beach who are accustomed to staying on the Bayshore Bikeway. Future completion of the Bikeway will certainly draw more users and many will be looking for longer routes or side trips to add to their usual route.

Signage highlighting Imperial Beach's attractions as stops along the proposed Ecoroute Bikeway within the City is recommended. These attractions include the Imperial Beach beaches, beach front parks and pier, the Tijuana River Estuary, and the dunes access at the south end of Seacoast Drive.

The signage should clearly indicate this is a scenic loop route to make certain cyclists know they can easily return to the Bayshore Bikeway at this point to continue on their way and the relative distances to each attraction. Dining and restroom facilities should be noted as well.

During field investigations, significant numbers of cyclists were seen using the Thirteenth Street trail head parking area to access the Bayshore Bikeway. As many as eight vehicles were seen there on a Thursday afternoon in March. This is another potential restroom location where there is also available public land.

Providing some parking may be desirable once the Bayshore Bikeway is completed and its use increases. At that time, the Seventh Street terminus may become the preferred trail head since it is located at the junction of the Bayshore Bikeway and the proposed Ecoroute Bikeway.

7.3.4 Bayshore Bikeway at Tenth Street

The Tenth Street access onto the Bayshore Bikeway is programmed to open in the near future. As with the other points of entry, signage, restrooms and bicycle parking should be investigated as amenities for this entry. This entrance to the City is a recommended since it allows children from the adjacent Bayside Elementary School a safer bicycle route to and from school.

During field work and workshop comments, it was noted that for cyclists on the Bayshore Bikeway, restrooms are far apart. There are no public restrooms along the route itself, and along the route most cyclists currently use, the nearest public restrooms are at the Coronado Ferry Landing. Workshop attendees indicated that a rest stop with interesting informational signage, seating and shade, and ideally one with restroom facilities, would be a welcome addition at the Tenth Street connection to the Bayshore Bikeway. Bikeway users have said that such a rest stop





would prompt them to stop and consider a side trip into Imperial Beach and that the extra distance was not a detriment and could even be considered an enhancement to their usual riding route. This makes this site a potentially excellent tie-in opportunity with the proposed Ecoroute Bikeway.

Because the entrance is adjacent to the Public Works building with nearby maintenance opportunities, restroom facilities are recommended at this location. The adjacency to a City facility will allow regular maintenance and security. It is also centrally located between the Seventh and Thirteenth Street entrances to the Bayshore Bikeway.

7.3.5 Bayshore Bikeway at Twelfth Street

In addition to the Seventh and Thirteenth Street entrances to the City from the Bayshore Bikeway, users can enter the City from Eighth Street and Twelfth Street as well. Twelfth Street is predominantly a pedestrian entrance since it is connected by narrow pavement from the curb to the bikeway. However, the Twelfth Street access does not have any curb cuts to allow a smooth rolling transition from the street to the bikeway. Most recreational cyclists and children would have to dismount, lift their bikes onto the curb and continue. Cyclists and children unfamiliar with the access might exit the bike path too quickly and not realize that they must “hop” a curb to access the street. The closest curb cut is a driveway entrance to a private residence about 50 feet away from the access path. A curb cut such as on 8th Street is recommended to provide a safer and more convenient access to the bike path from Twelfth Street.

7.4 Bicycle Parking

For a bikeway network to be used to its full potential, secure bicycle parking should be provided at likely destination points. Bicycle thefts are common and lack of secure parking is often cited as a reason people hesitate to ride a bicycle to certain destinations. The same consideration should be given to bicyclists as to motorists, who expect convenient and secure parking at their destinations.

Currently bicycle racks can be found at most major destination points such as the Tijuana Estuary Visitors Center, Dunes Park, Pier Park, Sports Park and the public library. During field investigations, only one bike rack was seen being used and people tended to park their bicycles closer to where they were stopped so they could keep their bikes in sight, which were rarely locked. In some cases, bicycles were left unattended leaning on rails, fences and buildings. For situations such as the Sports Park where there are numerous places to lock a bike other than a bike rack, the current bike rack would be sufficient to handle many bikes. Children tended to lean their bikes along the chain link fence of the field they were playing on. An example of a poorly designed bike rack is at the public library on Imperial Beach Boulevard. The four-sided design can realistically accommodate only two bikes which will end up taking up a good portion of the library entrance way.

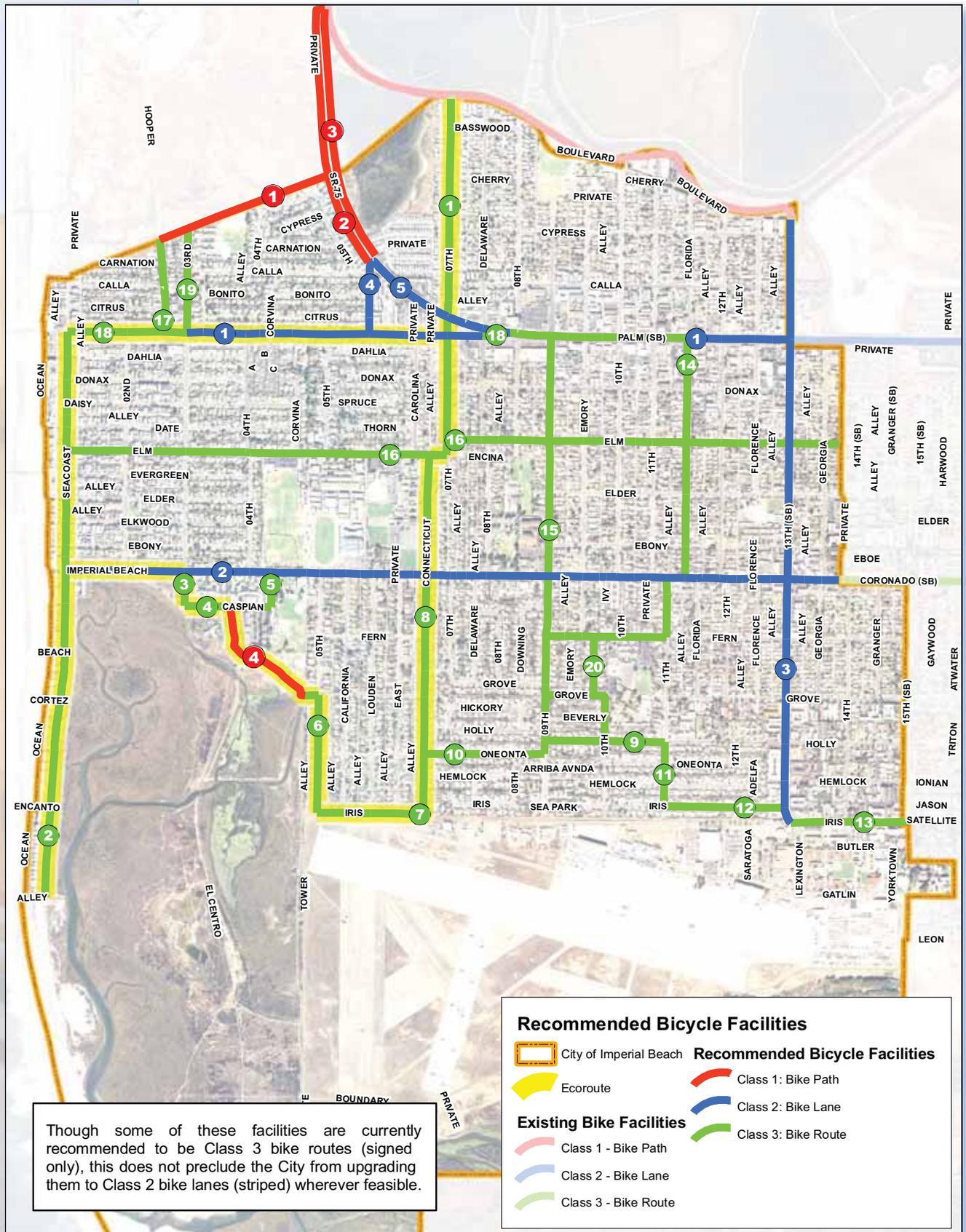


Bayshore Bikeway at 12th Street.
Missing curb cuts to allow a safe access on to the bike path.



Bicycles parked in the dugout at the Sports Park

Figure 7.1 Recommended Bicycle Facilities



Though some of these facilities are currently recommended to be Class 3 bike routes (signed only), this does not preclude the City from upgrading them to Class 2 bike lanes (striped) wherever feasible.





The Tijuana Estuary Visitors Center has an antiquated type of bike rack that is not even secured to the ground. Since the Visitors Center is a major destination, bike lockers would work well here. In a place like the Tijuana Estuary where visitors can spend hours hiking the trails, leaving their bicycles secured in lockers could increase bicycle use to the Visitors Center which could reduce vehicular traffic and potential parking problems. Visitors will be more comfortable knowing their bikes are secure for a longer period of time. A bike rack is also recommended at Veterans Park since it currently lacks bike parking.

Bicycle racks must be designed so that they:

- Do not bend wheels or damage other bicycle parts;
- Accommodate the high security U-shaped bike locks;
- Accommodate locks securing the frame and both wheels;
- Do not trip pedestrians;
- Are covered where users will leave their bikes for a long time; and
- Are easily accessed from the street and protected from motor vehicles.

To provide real security for the bicycle (with its easily removed components) and accessories (lights, pump, tools and bags), either bicycle enclosures, lockers or a check-in service is required. Bicycle parking facilities are generally grouped into two classes:

Long Term - Provides complete security and protection from weather; it is intended for situations where the bicycle is left unattended for long periods of time: apartments and condominium complexes, schools, places of employment and transit stops. These are usually lockers, cages or rooms in buildings.

Short Term - Provides a means of locking bicycle frame and both wheels, but does not provide accessory and component security or weather protection unless covered. It is for decentralized parking where the bicycle is left for a short period of time and is visible and convenient to the building entrance.



Bicycle rack at the public library



Bicycle rack at the corner of Seacoast Drive and Imperial Beach Boulevard

8

CIPs and Bikeway Funding

The following sections define the recommended bikeway system improvements as CIP projects and provide construction costs. See Figure 8-1: Recommended Bikeway Facility Segments, for a graphic overview of the proposed bikeway segments. For general bikeway component construction costs, see Table 8-1: Typical Unit Construction Costs. For a brief description of each segment, including estimated costs and segment lengths, see Table 8-2: Capital Improvement Projects. The remaining sections of this chapter describe the funding sources available for bikeway projects, followed by a summary, Table 8-3: Bikeway Facility Funding Summary.

8.1 Bikeway Development Priorities

The numbering used to identify projects within each bikeway facility class in the following sections does not necessarily imply priority. Bikeway facility implementation has no specific time line, since the availability of funds for implementation is variable and tied to the priority of the City's capital projects. (See Section 8.2: Facility Priority Criteria and Implementation.)

Note that the segment numbering sequence lists the Class 1 SR-75 bike path alternatives first, along with separate lists of proposed Class 2 facilities and the Class 3 facilities. This represents the recommended prioritization within facility classes only. It is difficult to prioritize all of the proposed bikeway facilities across the facility classes because several Class 3 routes could be implemented for far less than the cost of a single Class 2 lane, for example. Therefore, it is recommended that the Class 1, 2 and 3 facilities be regarded as parallel lists and be implemented as appropriate funds become available for each type of facility. (See Table 8-2: Capital Improvement Projects, for more information.) Additionally, facility prioritization criteria identified in Section 8.2 can be used to help identify which bikeways are likely to provide the most benefit to the bikeway system user type expected.

8.2 Facility Priority Criteria and Implementation

The following prioritization criteria can be used to help identify which routes are likely to provide the most benefit to the City bikeway system:

Mobility and Access (total of 20 points)

1. Volume of existing or potential bicycle traffic: 0 – 10 points
2. Provides access to major bicycle traffic generators: 0 – 5 points
3. Closes gap in significant route: 0 – 5 points

Safety (total of 15 points)

4. Remedies or improves specific obstacles: 0 – 5 points
5. Improves locations where bicycle crashes have occurred: 0 – 5 points
6. Improves routes with high vehicular traffic volumes: 0 – 5 points

Ability to Implement (total of 10 points)

7. Route or project has full or partial funding, or is likely to be funded: 0 – 5 points
6. Route or project is contained in a specific plan: 0 – 5 points

The maximum possible score is 45 points. Proposed projects can be rated periodically at whatever interval best fits funding cycles or to take into consideration the availability of new information, new funding sources, updated crash statistics, etc. Bikeway facility prioritization and implementation should be fine-tuned and adjusted accordingly based on future circumstances.

The cost of each project will always be a consideration. For example, if two projects with a high cost differential score within five points of each other based on the priority criteria, the lower cost project can be placed ahead of the higher cost project.





Table 8.1 Typical Construction Costs

Description	Unit	Unit Cost
Asphalt Pavement (4")	Square Foot	\$1.20-\$1.50
Bike Lane Striping	Linear Foot	\$0.60-\$0.80
Pavement Markings	Each	\$40.00-\$50.00
Fencing (Chain link)	Linear Foot	\$16.00-\$20.00
Guardrail	Linear Foot	\$20.00-\$25.00
8' Steel or Concrete Bridge	Linear Foot	\$1,200-\$1,500
36" Retaining Wall (Concrete)	Square Foot	\$32.00-\$40.00
Relocate Signs/Fencing	Linear Foot	\$1.00-\$2.00
Drainage	Linear Foot	\$1.00-\$5.00
Traffic/Bike Path Signing	Linear Foot	\$2.40-\$3.00
Lighting	Each	\$500.00
Traffic Control	Linear Foot	\$0.20-\$0.40
Clean Up	Linear Foot	\$0.10-\$0.20

Add 20% for contingencies, 10% for engineering and design, 5% for administration and 7% for construction management.

8.3 Typical Unit Construction Costs

Bikeway facility construction costs vary widely depending on facility type. A list of typical unit construction costs in 2005 dollars are shown in Table 8-1. Though useful for preliminary cost estimates, they do not reflect potential special circumstances such as the long bridges that would be needed to span rail lines or freeways, for instance. The following sections provide generalized costs per mile for each class of bicycle facility, as well as what these costs cover, and just as importantly, what they do not. Because typical cost references often do not accurately reflect local construction cost realities, these cost estimates were based on comparisons of bikeway facility projects recently completed in the San Diego metropolitan region.

8.3.1 Class 1 Bikeways

Because they are constructed independently of existing or programmed motor vehicle facilities, Class 1 paths are by far the most expensive of all bicycle facilities. Typical costs per mile can vary a great deal due to possible right-of-way acquisition, bridges and other potential major expenses such as extensive grading. The cost range is primarily due to topography and facility width. For example, a Class 1 facility on flat terrain will require far less grubbing, grading and structural enhancements than a facility being constructed through an undeveloped area with hilly topography. For this bikeway master plan, the cost used in Table 8-2 for the class 1 segment was \$466 per linear foot, or approximately \$2,460,480 per mile, due to potentially extensive construction, grading, bridges and environmental review. A more standardized figure was used for the other Class 1 segments of \$190 per linear foot, or \$1,000,000 per mile.



8.3.2 Class 2 Bikeways

Class 2 facility costs are approximately \$15,000 to \$35,000 per mile. This cost includes necessary lane striping and signage, but does not include widening of roadways. The cost variation is due to the amount of striping and signage installed. For example, the cost will be higher where substantial re-striping is needed, or right-of-way acquisition. The cost used in Table 8-2 was \$6 per linear foot, or approximately \$32,000 per mile.

8.3.3 Class 3 Bikeways

Class 3 routes costs are the lowest of all facility types because the only physical improvement to be installed is route signage. The cost range of \$1,500 to \$5,000 per mile is due to the distance between signs, which can vary considerably depending upon factors such as horizontal and vertical curvature, the number the intersections and curb cuts, and how often the route changes direction onto different roadways. The cost used in Table 8-2 was \$0.70 per linear foot, or approximately \$3,500 per mile.

Table 8.2 Capital Improvement Projects

Class 1 Bicycle Facilities					
Segment Numbers	Length (Ft)	Length (Miles)	Description	Est Costs	Notes
1	3,960	0.75	Bike path on southbound SR-75 to Silver Strand Blvd	\$1,845,360	Alternative #1 allows access onto the western side of the City without have to cross Palm Ave
2	3,010	0.57	Bike path on southbound SR-75 to Rainbow Drive	\$1,402,474	Alternative #2 allows bike path access to Rainbow Drive if Alternative #1 is not feasible
3	2,798	0.53	Bike path on northbound SR-75 to Rainbow Dr	\$1,304,054	Alternative #3 is a continuation of existing Bayshore Bikeway and direct connection to Rainbow Dr
4	1,584	0.30	Bike path between Caspian Way to Grove Ave	\$738,144	Bike path through the Tijuana Estuary and part of the Ecoroute
Totals	11,352	2.15		\$5,290,032	

Class 2 Bicycle Facilities					
Segment Numbers	Length (Ft)	Length (Miles)	Description	Est Costs	Notes
1	4,212	0.80	Palm Ave between 3rd St and Delaware St and between Florida St and the City limit.	\$25,526	Continuation of the bike lane that enters the City from Thirteenth St to the coast
2	10,560	2.00	Imperial Beach Blvd between Seacoast Dr to City of San Diego limit	\$64,000	Alternative #1 for this segment as programmed
3	6,864	1.30	Thirteenth St between Bayshore Bikeway to Iris Ave	\$41,600	Programmed Class 2 bike lanes
4	827	0.16	Rainbow Drive between SR-75 and Palm Ave	\$548	Access to Palm Ave without the heavy traffic and high speeds of SR-75 and connects to alternative bike lanes
5	1,753	0.33	Palm Avenue/SR-75 between Rainbow Drive and Delaware Street	\$1,162	Recommended bike lanes to transition the bike routes on Palm Ave to the planned bike paths along SR-75
Totals	24,216	4.59		\$131,674	



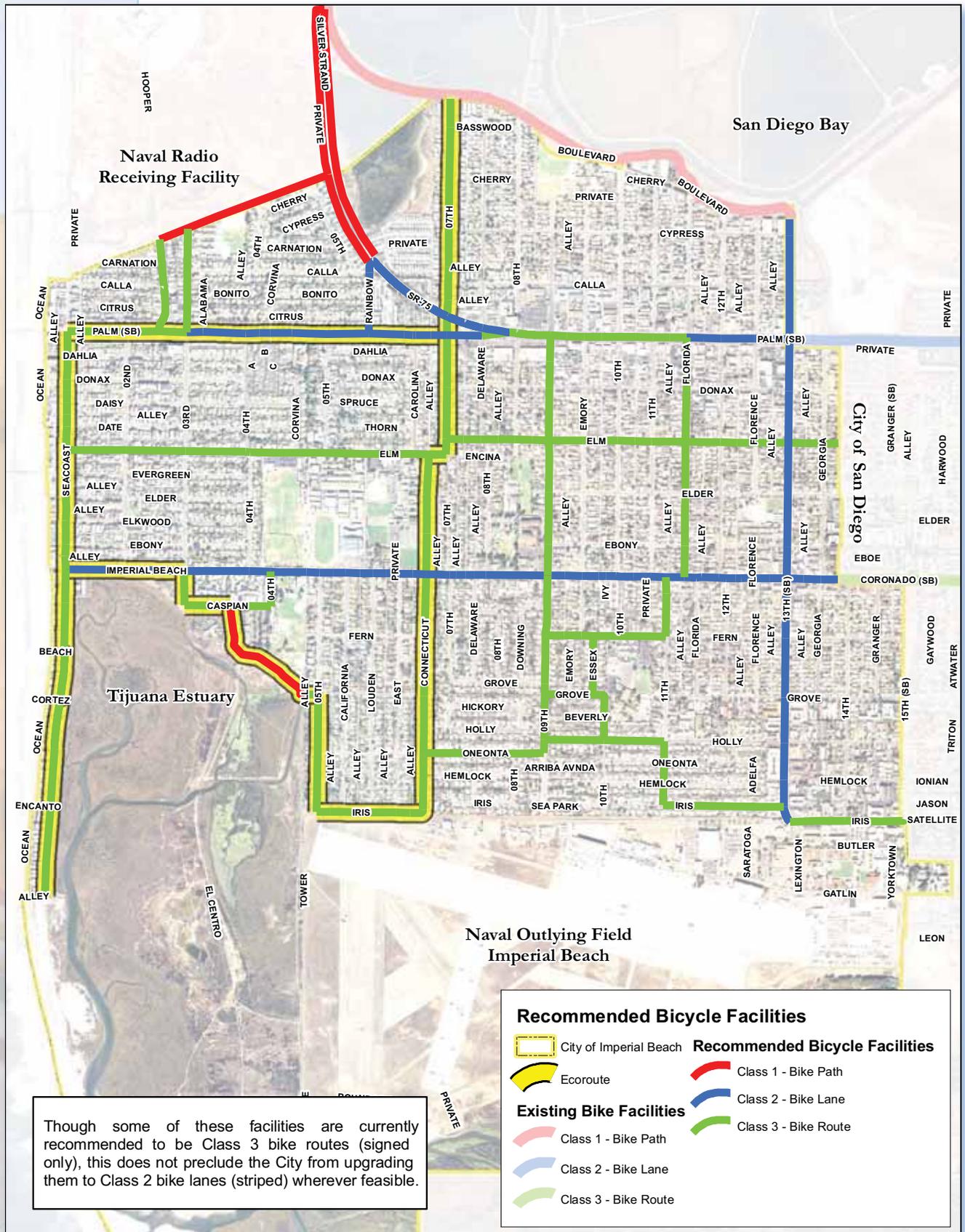


Class 3 Bicycle Facilities

Segment Numbers	Length (Ft)	Length (Miles)	Description	Est Costs	Notes
1	4,224	0.80	Seventh Street between Bayshore Bikeway and Elm Ave	\$2,800	Primary access point to the Bayshore Bikeway and beginning of the programmed Ecoroute
2	6,336	1.20	Seacoast Drive from Palm Ave to its terminus	\$4,200	Class3 bike route with shared bike lane markings and part of the Ecoroute
3	388	0.07	Third St between Imperial Beach Blvd and Caspian Way	\$257	Ecoroute segment
4	1,056	0.20	Caspian Way between Third St and Fourth St	\$700	Ecoroute segment
5	388	0.07	Fourth St between Caspian Way and Imperial Beach Blvd	\$257	Connects Ecoroute and Tijuana Estuary Visitors Center with the Sports Park
6	1,584	0.30	Fifth St between Grove Avenue and Iris Ave	\$1,050	Continuation of Ecoroute from Tijuana Estuary
7	1,056	0.20	Iris Ave between Fifth St and Connecticut St	\$700	Ecoroute segment
8	4,752	0.90	Connecticut St between Iris Ave to Elm Ave	\$3,150	Ecoroute segment
9	1,584	0.30	Oneonta Ave between Connecticut St and Ninth St	\$1,050	Ecoroute connection between Connecticut St and Ninth St
10	1,584	0.30	Holly Ave between Ninth St and Eleventh St	\$1,050	Segment to connect transit routes and southern most east-west route
11	528	0.10	Eleventh St between Holly Ave and Iris Ave	\$350	High number of bicycle commuters along this segment
12	1,584	0.30	Iris Ave between Eleventh St and Thirteenth St	\$1,050	Connect with Thirteenth St and Imperial Beach NOLF
13	1,056	0.20	Iris Ave between Thirteenth St and City limit	\$700	Connects Thirteenth St and City of San Diego
14	2,640	0.50	Florida St between Palm Ave and Imperial Beach Blvd	\$1,750	North-south connection in which intersection issues must be addressed
15	4,752	0.90	Ninth St between Palm Ave and Holly Ave	\$3,150	Central north-south connection between Palm Ave and Holly Ave
16	7,392	1.40	Elm Ave between Seacost Dr and City of San Diego limit	\$4,900	Central east-west connection with low traffic volumes
17	1,045	0.20	Silver Strand Boulevard between NRRF Base entrance and Palm Avenue	\$693	Bike route to connect base entrance with Palm Ave
18	3,602	0.68	Palm Avenue between Seacoast Drive and 3rd Street and between Delaware Street and Florida Street	\$2,388	Bike routes to complete a bicycle facility throughout Palm Ave
19	1,151	0.22	Third Street between Palm Ave and West View Elementary	\$763	Bike route to connect the adjacent neighborhoods and Palm Ave to West View Elementary
20	3,813	0.72	Fern Ave, 11th St, Essex St, Grove Ave and 10th St	\$2,528	Bike routes to complete a bicycle facility to Oneonta Elementary School
Totals	50,515	9.57		\$33,485	



Figure 7.1 Recommended Bicycle Facilities





8.3.4 Bikeway Bridge Improvements

The following information concerns bridges designed to serve bicycle facilities in locations other than planned or programmed roadway bridges. Typical roadway bridges are constructed of reinforced concrete to withstand the enormous stresses of motor vehicle traffic and seismic activity. Bridges intended for non-motorized uses do not need to be as robust or as costly as bridges designed for regular motor vehicle use.

Bridges costs depend on design load and foundation, and to a lesser extent, length, width and materials. Bridges must be designed to carry the same loads as the bikeway facility they serve. On Class 1 facilities, for example, where patrol, emergency or maintenance vehicles are expected to use the bridge, it must be able to support at least the gross weight of the heaviest anticipated vehicle. Bridges intended to support motor vehicles will require much sturdier construction and increased width, both of which will increase costs.

Unstable soil conditions will require any bridge to be built with more expensive foundations in the form of larger footings or piers. Wooden bridges tend to be less expensive than metal bridges, though their useful life may be shorter. Bridge costs increase almost exponentially as their height increases due to increased structural complexity. Finally, pre-fabricated bridges are generally cheaper and less environmentally damaging to install than constructed-in-place bridges. For bridge preliminary cost estimates, \$1,500 to \$1,750 per linear foot is adequate.

8.4 Bikeway Funding Sources

Federal, State and local government agencies invest billions of dollars every year in the nation's transportation system. Only a fraction of that funding is used in development projects, policy development and planning to improve conditions for cyclists. Even though appropriate funds are limited, they are available, but desirable projects sometimes go unfunded because communities may be unaware of a fund's existence, or may apply for the wrong type of grants. Also, the competition between municipalities for the available bikeway funding is often fierce.

Whenever Federal funds are used for bicycle projects, a certain level of State and/or local matching funding is generally required. State funds are often available to local governments on the similar terms. Almost every implemented bicycle program and facility in the United States has had more than one funding source and it often takes a good deal of coordination and opportunism to pull the various sources together.

According to the FHWA's publication, *An Analysis of Current Funding Mechanisms for Bicycle and Pedestrian Programs at the Federal, State and Local Levels*, where successful local bike facility programs exist, there is usually a full-time bicycle coordinator with extensive understanding of funding sources. Cities such as Seattle, Washington, Portland, Oregon and San Diego are prime examples. Bicycle coordinators are often in a position to develop a competitive project and detailed proposal that can be used to improve conditions for cyclists within their jurisdictions. Much of the following information on Federal and State funding sources was derived from the previously mentioned FHWA publication.

8.4.1 Federal Sources

U.S. Department of Transportation TEA-21 (Transportation Equity Act) Enhancement Funds

In 1991, Congress re-authorized the collection and distribution of the Federal gasoline tax and related transportation spending programs. The legislation, the Intermodal Surface Transportation Enhancement Act (ISTEA), was seen as particularly significant because the focus of 30 years of Federal transportation investment, the Interstate Highway System, was nearing completion. The legislation provided the opportunity to rethink transportation priorities and philosophies. This act was re-authorized in 1997 as the Transportation Equity Act (TEA-21), and again in 2005.





TEA-21 funding is currently managed through State and regional agencies, in this case the San Diego Association of Governments (SANDAG). Most, but not all, of the funding programs are oriented toward transportation versus recreation, with the emphasis on reducing auto trips and providing intermodal connections. Funding criteria include completion and adoption of a bicycle master plan, quantification of the costs and benefits of the system (including saved vehicle trips, reduced air pollution), proof of public involvement and support, NEPA compliance and the commitment of local resources. In most cases, TEA-21 provides matching grants of 80 to 90 percent. The amount of money available through TEA-21 is substantial (over \$155 billion from 1992-97), but there is always strong competition to obtain those funds.

Federal funding through the TEA-21 program provides the bulk of outside funding. TEA-21 is comprised of two major programs, Surface Transportation Program (STP) and Congestion Management and Air Quality Improvement (CMAQ), along with other programs such as the National Recreational Trails Fund, Section 402 (Safety) funds, Scenic Byways funds and Federal Lands Highways funds, though municipalities are unlikely to be eligible for funding from all of these sources. Among the new concepts in the original legislation were intermodalism, transportation efficiency, funding flexibility and planning, all of which had direct benefits for cycling. The legislation also created a wide range of funding opportunities for bicycle-related activities, including the following that may represent opportunities for the City of Imperial Beach:

Surface Transportation Program (STP)

Section 1007 (a)(1)(b)(3) allows states to spend their allocation of Surface Transportation Program funds on a range of activities similar to those of the NHS. Bicycle facilities are specifically listed as eligible items. STP Funds can also be used for “non-construction bicycle projects related to safe bicycle use.” Section 1007 (b)(2)(C)(c) created a new category of transportation enhancement activities (TEA) on which States were required to spend at least 10 percent of their Surface Transportation Program funds. TEAs are very broadly defined as:

“...with respect to any project or the area to be served by the project, provision of facilities for pedestrians and cyclists, acquisition of scenic easements and scenic or historic sites, scenic or historic highway programs, landscaping and other scenic beautification, historic preservation, rehabilitation and operation of historic transportation buildings, structures or facilities including historic railroad facilities and canals, preservation of abandoned railway corridors (including the conversion and use thereof for pedestrian and bicycle trails), control and removal of outdoor advertising, archaeological planning and research and mitigation of water pollution due to highway runoff.”

Surface Transportation Program funds are allocated to the California Department of Transportation (Caltrans) and 75 percent of STP funds are programmed by regional agencies such as the San Diego Association of Governments (SANDAG) under current state law. The Federal government does not allocate funds to specific projects. Therefore, for a bicycle project to be funded, it must appear on the list of potential projects under consideration at the State, regional, or City level, whichever is appropriate.

Local Planning

Section 1024 (a) requires each metropolitan area (with a population greater than 200,000) to develop an annual or biannual Transportation Improvement Program (TIP) that “shall provide for the development of transportation facilities (including pedestrian walkways and bicycle transportation facilities) which will function as an intermodal transportation system.”

These TIPs must be based on available funding for projects in the program and they must be coordinated with transportation control measures to be implemented in accordance with Clean Air Act provisions. Final project selection rests with the California Transportation Commission (CTC), with technical input from Caltrans.





State Planning

Two sections of the Act explicitly require the State to develop a TIP to “consider strategies for incorporating bicycle transportation facilities and pedestrian walkways in projects, throughout the State,” (Section 1025 (c)(3)), and to “develop a long-range plan for bicycle transportation facilities and pedestrian walkways for appropriate areas of the State, which shall be incorporated into the long-range transportation plan,” (Section 1025 (e)). These provisions are important on a municipal level because they are crucial for getting incidental bicycle projects funded. The intent behind these sections is to ensure that if bicycle facilities are identified in a TIP or long-range plan as being necessary in a corridor and construction or reconstruction work in those corridors is planned, then the relevant bicycle improvements called for in the planning must be included and implemented. Opportunities for incorporating bicycle projects are not limited to large transportation projects and not even to actual construction projects. Independent bicycle and pedestrian projects, such as trails away from highway corridors and non-construction projects, such as mapping, also need to be incorporated into State and City planning documents if they are to be funded.

Section 1033 states that the Federal share under TEA-21 of bicycle transportation facilities is to be 80 percent. The remaining 20 percent of the funds must be matched by the State or local government agency implementing the project. The section also states that, to be funded, a bicycle transportation facility must be principally for transportation rather than recreation purposes. This has been defined by the FHWA to mean:

“Where Federal-aid highway funds are used, these projects should serve a transportation function. A circular recreation path, for example, would not be eligible. However, any type of facility which does serve a valid transportation need while also fulfilling recreation purposes would be eligible.” The section goes on to describe a “bicycle transportation facility” as: “new or improved lanes, paths or shoulders for the use of cyclists, traffic control devices, shelters and parking facilities for cyclists.”

Congestion Mitigation and Air Quality Program (CMAQ)

Section 1008 is referred to as the Congestion Mitigation and Air Quality Program (CMAQ). This part of the legislation is intended to fund programs and projects likely to contribute to the attainment of national ambient air quality standards under the 1990 Clean Air Act Amendments. Five areas of eligibility have been defined: Transportation activities in an approved State Implementation Plan (SIP) developed under the Clean Air Act Transportation Control Measures listed in Section 108 (b)(1)(A) of the Clean Air Act, which include:

(ix) Programs to limit portions of roadway surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;

(x) Programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of cyclists in both public and private areas; and

(xv) Programs for new construction and major reconstruction of paths, tracks, or areas solely for the use by pedestrians or other non-motorized means of transportation, when economically feasible and in the public interest.”

“Construction of bicycle and pedestrian facilities, non-construction projects related to safe bicycle use and State bicycle/pedestrian coordinator positions as established in the TEA- 21, for promoting and facilitating the increased use of non-motorized modes of transportation. This includes public education, promotional and safety programs for using such facilities.”

To be funded under this program, projects and programs must come from a transportation plan (or State (STIP) or Regional (RTIP) Transportation Improvement Program) that conforms to the SIP and must be consistent with the conformity provisions of Section 176 of the Clean Air Act.





Section 402 (Safety) Funds

Section 402 funds address State and community highway safety grant programs. The priority status of safety programs for cyclists expedites the approval process for these safety efforts.

Symms National Recreational Trails Act

The Symms National Recreational Trails Act created a trust fund for the construction and maintenance of trails. At least 30 percent of the funds must be spent on trails for non-motorized users and at least 30 percent for trails for motorized users. The remainder is to be allocated to projects as determined by the State Recreational Trails Advisory Board of the California Department of Parks and Recreation, which the State must have to be eligible for the funds.

Federal Transit Act

Section 25 of the 1964 Urban Mass Transportation Act states that: "For the purposes of this Act a project to provide access for bicycles to mass transportation facilities, to provide shelters and parking facilities for bicycles in and around mass transportation facilities, or to install racks or other equipment for transporting bicycles on mass transportation vehicles shall be deemed to be a construction project eligible for assistance under sections 3, 9 and 18 of this Act." The Federal share for such projects is 90 percent and the remaining 10 percent must come from sources other than Federal funds or fare box revenues. Typical funded projects have included bike lockers at transit stations and bike parking near major bus stops. To date, no projects to provide bikeways for quicker, safer or easier access to transit stations have been requested or funded.

Department of the Interior - Land and Water Conservation Fund (LWCF)

The U.S. Recreation and Heritage Conservation Service and the State Department of Park and Recreation administer this funding source. Any project for which LWCF funds are desired must meet two specific criteria. The first is that projects acquired or developed under the program must be primarily for recreational use and not transportation purposes and the second is that the lead agency must guarantee to maintain the facility in perpetuity for public recreation. The application will be considered using criteria such as priority status within the State Comprehensive Outdoor Recreation Plan (SCORP). State Department of Park and Recreation will select which projects to submit to the National Park Service (NPS) for approval. Final approval is based on the amount of funds available that year, which is determined by a population-based formula. Trails are the most commonly approved project.

National Recreational Trail Fund

This funding source is intended to pay for a variety of recreational trails programs to benefit cyclists, pedestrians and other non-motorized users. Projects must be consistent with the State Comprehensive Outdoor Recreation Plan required by the Land and Water Conservation Act.

8.4.2 State Sources

Streets and Highways Code – Bicycle Transportation Account (BTA)

The Bicycle Transportation Account (BTA) funds non-motorized facilities and access to cities and counties that have adopted bikeway master plans. Section 2106 (b) of the Streets and Highways Code transfers funds annually to the BTA from the revenue derived from the excise tax on motor vehicle fuel. The Caltrans Office of Bicycle Facilities administers the BTA. It is locally administered through SANDAG to counties and cities. Approximately \$8.2 million is available annually to projects in San Diego County. For a project to be funded from the BTA, the project shall:

- i) Be approximately parallel to a State, county, or city roadways, where the separation of bicycle traffic from motor vehicle traffic will increase the traffic capacity of the roadway; and





ii) Serve the functional needs of commuting cyclists; and

iii) Include but not be limited to:

- New bikeways serving major transportation corridors;
- New bikeways removing travel barriers to potential bicycle commuters;
- Secure bicycle parking at employment centers, park and ride lots and transit terminals;
- Bicycle-carrying facilities on public transit vehicles;
- Installation of traffic control devices to improve the safety and efficiency of bicycle travel;
- Elimination of hazardous conditions on existing bikeways serving a utility purpose;
- Planning; and
- Safety and education

Maintenance is specifically excluded from funding and allocation takes into consideration the relative cost effectiveness of the proposed project.

State Highway Account

Section 157.4 of the Streets and Highways Code requires Caltrans to set aside \$360,000 for the construction of non-motorized facilities that will be used in conjunction with the State highway system. The Office of Bicycle Facilities also administers the State Highway Account fund. Funding is divided into different project categories. Minor B projects (less than \$42,000) are funded by a lump-sum allocation by the CTC and are used at the discretion of each Caltrans District office. Minor A projects (estimated to cost between \$42,000 and \$300,000) must be approved by the CTC. Major projects (more than \$300,000) must be included in the State Transportation Improvement Program and approved by the CTC. Funded projects have included fencing and bicycle warning signs related to rail corridors.

Transportation Development Act Article III (Senate Bill 821)

Transportation Development Act Article III funds are State block grants awarded annually to local jurisdictions for bicycle and pedestrian projects in California. The funds originate from the State retail sales tax and are distributed through the Congestion Management Agency to local jurisdictions based generally of population. Examples of expenditures have included construction of bicycle facilities and printing of bicycle safety posters on the back of city buses.

8.4.3 Other State Bicycle Project Funding Sources

Governor's Energy Office (Oil Overcharge Funds)

The Federal government forced oil companies to repay the excess profits many of them made when they violated price regulations enacted in response to the energy crisis of the early 1970's. Few states have taken advantage of this fund, but some have received grants for bike coordinators and bicycle facilities. The types of projects eligible for funding vary by state, as does the level of allocation available.

Safe Routes to School Program (SR2S)

The Safe Routes to School Program funds non-motorized facilities in conjunction with improving access to schools through the Caltrans Local Assistance Division.

8.4.4 Local Sources

TransNet Sales Tax Funds

San Diego County voters passed a local tax ordinance authorizing the creation of the TransNet Sales Tax, imposing a 1/2 cent "transaction and use tax" solely to fund transportation improvements. About one million dollars are allocated annually for improved bicycle routes throughout the region. The ordinance describes bicycle facilities and requirements for facilities as:



“All purposes necessary and convenient to the design, right-of-way acquisition and construction of facilities intended for the use of bicycles. Bicycle facilities shall also mean facilities and programs that help to encourage the use of bicycles, such as secure bicycle parking facilities, bicycle promotion programs and bicycle safety education programs.”

“All new highway projects funded with revenues as provided in this measure, which are also identified as bikeway facilities in the Regional Transportation Plan (RTP), shall be required to include provision for bicycle use.”

Proposition A

This is a funding source administered by SANDAG with an annual availability of approximately \$1 million per year.

Assembly Bill 2766/434

This bill funds air pollution reduction projects related to alternate modes of transportation. The Air Pollution Control Board (APCB) administers this fund. Approximately \$3 million is available annually.

RideLink

This program is operated by SANDAG and covers a variety of transportation management activities including projects such as bicycle lockers and security devices. These will be provided, installed and maintained for public agencies at no cost to the requesting agency. RideLink also offers a bicycle locker loan program to private sector entities.

Developer Impact Fees

As a condition for development approval, municipalities can require developers to provide certain infrastructure improvements, which can include bikeway projects. These projects have commonly provided Class 2 facilities for portions of on-street, previously planned routes. They can also be used to provide bicycle parking or shower and locker facilities. The type of facility that should be required to be built by developers should reflect the greatest need for the particular project and its local area. Legal challenges to these types of fees have resulted in the requirement to illustrate a clear nexus between the particular project and the mandated improvement and cost.

New Construction

Future road widening and construction projects are one means of providing on-street bicycle facilities. To ensure that roadway construction projects provide bike lanes where needed, it is important that the review process includes input pertaining to consistency with the proposed system. Future development in the City of Imperial Beach will contribute only if the projects are conditioned.

Restoration

Cable TV and telephone companies sometimes need new cable routes within public rights-of-way. Recently, this has most commonly occurred during expansion of fiber optic networks. Since these projects require a significant amount of advance planning and disruption of curb lanes, it may be possible to request reimbursement for affected bicycle facilities to mitigate construction impacts. In cases where cable routes cross undeveloped areas, it may be possible to provide for new bikeway facilities following completion of the cable trenching, such as sharing the use of maintenance roads.

Other Sources

Local sales taxes, fees and permits may be implemented as new funding sources for bicycle projects. However, any of these potential sources would require a local election. Volunteer programs may be developed to substantially reduce the cost of implementing some routes, particularly multi-use paths. For example, a local college design class may use such a multi-use route as a student project, working with a local landscape architectural or engineering firm. Work parties could be formed to help clear the right-of-way for the route. A local con-





struction company may donate or discount services beyond what the volunteers can do. A challenge grant program with local businesses may be a good source of local funding, in which the businesses can “adopt” a route and help to construct and maintain it.

8.4.5 Most Likely Sources

According to City of Imperial Beach sources, the most likely local sources of bikeway funding are the following:

- 1) TDA/CIP (Transportation Development Act, Capital Improvement Projects)
- 2) TIF (Traffic Impact Fee Fund)
- 3) City of Imperial Beach General Fund
- 4) Developer Impact Fees
- 5) BTA (Bicycle Transportation Account)
- 6) APCB (Air Pollution Control Board)

These facility guidelines are intended to guide development of all types of bikeway facilities. The first section considers the necessary planning aspects of bikeway system design in general. The following section discusses general physical design guidelines. Subsequent sections provide physical design information for specific classes of bikeway facilities.

8.5 Bikeway Planning

Successfully implementing a bikeway system involves careful planning that considers a number of issues, including setting up appropriate mechanisms to take advantage of bikeway opportunities as they become available. Author and bicycle planning expert Susan Pinsof has perhaps described the process most succinctly:

“A comprehensive, affordable approach to bicycle planning involves maximizing the usefulness of existing infrastructure by improving the safety of shared roadway space; using opportunities, such as available open space corridors for trails; creating more “bicycle-friendly” communities through planning, design and regulation; and addressing the need for bicycle safety education and encouragement.”

8.5.1 Local Emphasis

Cycling is primarily a local activity since most trips do not exceed five miles. Experienced cyclists routinely ride further than this and their cross-community travel should be accommodated. However, if it is a community goal to make localized cycling a viable option for personal transportation, then cyclist mobility must be improved and enhanced throughout the community, especially to important local destinations. Even though State or Federal policies may influence or even dictate some design and implementation decisions, it is local decisions that will most significantly affect the potential for cycling within a community.

8.5.2 Master Plan Process

The basis for a bicycle-friendly community can be established by instituting appropriate policies through the development and adoption of this bicycle master plan. A program of physical improvements and workable implementation strategies that reflects local needs was developed as part of this master plan. A bicycle master plan will be of little value if it is not part of an active and ongoing planning process that continually seeks to integrate cycling considerations into all areas of local planning.

Within this master plan, facility design guidelines have been tailored to local conditions, but are also consistent with national guidelines, such as the AASHTO Guide to Development of Bicycle Facilities. State guidelines are also referenced, specifically, Caltrans Highway Design Manual, Chapter 1000, Bikeway Planning and Design and the Caltrans Traffic Manual. Elements of these guidelines without relevance to the region have been excluded.





8.5.3 “Institutionalizing” Bicycle Planning

Achieving implementation of this master plan will be greatly expedited by “institutionalizing” bicycle planning, a concept first developed by Peter Lagerway of the city of Seattle, Washington as part of his efforts as the city’s pedestrian and bicycle coordinator. The term refers to coordinating local planning and regulatory functions in the development of a program of improvements. The three elements needed to institutionalize bicycle planning on a local level are a bicycle advisory committee, a bicycle coordinator and committed public officials.

1. Bicycle Advisory Committee

Public involvement can be promoted through the formation of a bicycle advisory committee as a new city committee, or as a subcommittee of an appropriate existing committee. Its primary benefit would be in providing an avenue for public participation and support.

2. Bicycle Coordinator

City government involvement can occur through the designation of a bicycle coordinator. For a city the size of Imperial Beach, this may be a part-time position or integrated with an existing position, but this does not diminish its importance. Since a truly comprehensive bicycle planning effort will involve many city departments including Public Works, Parks and Recreation, Planning and Traffic Engineering, as well as local school boards and the Sheriffs Department, the bicycle coordinator would be in a position to organize interdepartmental efforts and make certain that bicycle concerns are integrated into other city activities in the planning stages, as well as coordinated with adjacent communities and jurisdictions.

3. Public Officials

The third aspect of institutionalization of bicycle planning involves obtaining the commitment of public officials. Leadership for bicycle improvements may already come from public officials, but even if it does not, officials will be more likely to be supportive if they can be certain their constituency wants a more bicycle-friendly community.





Figure 8.3 Bikeway Facility Funding Summary

Grant Source	Due Date	Agency	Annual Total	Match Required	Eligible Applicants	Eligible Bikeway Project Types			Remarks
						Com	Rec	Safety	
State Sources									
State Highway Account (SHA): Bicycle Transportation Account (BTA)	Consult Local Assistance Office	Caltrans	\$7,200,000/yr. state-wide	10% local match required	Jurisdictions with an adopted Bikeway Plan	X		X	Available for planning grants
Transportation Development Act (TDA) Section 99234	April 2, annually			none	Local agencies	X	X	X	2% of TDA total
AB 2766 Vehicle Registration Funds		Caltrans				X	X		Competitive program for projects that benefit air quality
Vehicle Registration Surcharge Fee (AB 434) RCF	July	APCB		none	Local agencies, transit operations, others	X	X	X	Competitive program for projects that benefit air quality
Vehicle Registration Surcharge Fee (AB 434) PMF	April	APCB	40% from grant source	none	Local jurisdictions	X	X	X	Funds distributed to county communities based on population
Developer Fees or Exactions	Ongoing	Cities	Project-specific	none		X	X	X	Mitigation required during land use approval process
State Gas Tax (local share)	Monthly allocation	Allocated by State Auditor-Controller		none	Local jurisdictions	X		X	Major Projects, >\$300,000
Flexible Congestion Relief Program (FCRP)	Dec. STIP cycle	Caltrans	\$300 million/yr. state-wide		Cities, counties, transit operations, Caltrans	X	X		Must be included in an adopted RTP, STIP, CMP or RTIP
State and Local Transportation Partnership Program (SLPP)	June 30	Caltrans	Est. \$200 million/yr. state-wide	none	Cities, counties or assess. districts authorized to impose taxes/fees and construct public trans. facilities	X	X		Road projects with bike lanes are eligible
Caltrans Minor Capital Program	Ongoing after July 1	Caltrans	Discretionary (Est. \$4 million/yr. for District 11)	none	State and local agencies for projects >\$300,000	X			Projects must be on state highways; such as upgraded bike facilities
Environmental Enhancement and Mitigation Program (EEM)	Nov. 1 annually	State Resources Agency	\$10 million/yr. state-wide	none required, but favored	Local, state, federal government and non-profit agencies	X	X		Projects that enhance or mitigate existing or future transportation projects
Petroleum Violation Escrow Account (PVEA)	March 1	Budget Act for Caltrans, or special legislation for allocation to local agencies	Varies	none	State and local jurisdictions	X	X		Projects must save energy, provide restitution to the public and be approved by CA Energy Commission and US DOE
Community Based Transportation Planning Demonstration Grant Program	November	Caltrans	\$3 million annually	20% local match required	Local and state agencies, MPOs, RTPAs, private, non-profit and community organizations	X		X	Projects must have a transportation component or objective
Habitat Conservation Fund Grant Program (HCF)	October	CA Dept of Park and Recreation	\$2 million	50% local match required	Cities, counties and eligible districts		X		Will only be available until July 1, 2020
Office of Traffic Safety Program (OTS)	January 31	Office of Traffic Safety	Varies	none	Local, state, federal government, school districts, fire departments, state colleges and universities, emergency service providers and non-profit agencies	X		X	Program objective is to reduce motor vehicle fatalities and injuries through a national highway safety program. Program to include: education, enforcement and engineering
Safe Routes to School Program (SR2S)	May	Subset of the Hazard Elimination Safety Program	\$20 million annually	10% local match required	Cities and counties within California	X		X	Maximum grant shall not exceed \$450,000 of federal funds per project
State Transportation Improvement Program (STIP)	Every 4 years	Regional Transportation Planning Agency	Varies	non	Cities, counties transit operators and Caltrans	X		X	Gives metropolitan regions more control over how state transportation funds are invested





Grant Source	Due Date	Agency	Annual Total	Match Required	Eligible Applicants	Eligible Bikeway Project Types			Remarks
						Com	Rec	Safety	
Federal Sources									
Land and Water Conservation Act of 1965	Dec.	State Parks and Recreation Department		50%				X	Funding subject to North/South split. Funds for outdoor recreation projects
TEA21 - Surface Transportation Program (STP)	June 1	Caltrans, FHWA		20% non-federal match	Federally certified jurisdictions				STP funds may be exchanged for local funds for non-federally certified local agencies. No match required if project improves safety
TEA21 - Transportation Enhancement Activities (TEA)	STIP cycle	FHWA		20% non-federal match	Federally certified jurisdictions		X	X	Contact county
TEA21 - Bridge Replacement and Rehabilitation Program (BRP)	Jan/list of projects	Caltrans	\$85 million/yr. state-wide	20%	Cities, counties, parks/recreation districts and air districts		X	X	Contact Caltrans Division of Structures, Office of Local Programs, Program Manager
TEA21 - National Highway System		Caltrans					X	X	Bike projects must provide a high degree of safety
TEA21 - Scenic Byways Program		Caltrans	\$30 million/yr. state-wide		Local government agencies			X	Should apply first for TEA funds until TEA runs out
TEA21 - Public Lands Highway Program									
1. Forest Highway Program	Oct. 30	Caltrans	\$15 million/yr. state-wide		Caltrans, local jurisdictions and federally funded programs (USFS, BLM)		X	X	For roads and bikeways leading to and serving National Forests
2. Discretionary Program	June 7	Caltrans	Varies - averages \$7 million/yr. state-wide		Caltrans, local jurisdictions and federally funded programs (USFS, BLM)		X	X	For roads and bikeways leading to and serving National Forests
Congestion Mitigation and Air Quality Improvement Plan (CMAQ)	Annually to Multi-Year. Depends on MPO	Caltrans	\$400 million/yr. state-wide	20% non-federal match	Cities, counties, transit operators, Caltrans, Metropolitan Planning Organizations, Non-Profit and private entities		X		The amount of CMAQ Funds depends on the state's population share and on the degree of air pollution
Regional Trails Program (RTP)	October	Dept of Parks and Recreation	\$3 million annually	20% non-federal match	Local jurisdictions, state agencies and non-profit organizations		X	X	Funds are for both motorized and non-motorized categories
Rivers, Trails and Conservation Assistance Program (RTCA)	August	National Park Service			Local jurisdictions, state agencies and citizen groups			X	Expenditures include bikeway plans, corridor studies and trails assistance





Design Guidelines

These facility guidelines are intended to guide development of all bikeway facility types. The first section considers the necessary planning aspects of bikeway system design in general. The following section discusses general physical design guidelines. Subsequent sections provide physical design information for specific classes of bikeway facilities.

9.1 Bikeway Planning

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“A comprehensive, affordable approach to bicycle planning involves maximizing the usefulness of existing infrastructure by improving the safety of shared roadway space; using opportunities, such as available open space corridors for trails; creating more ‘bicycle-friendly’ communities through planning, design and regulation; and addressing the need for bicycle safety education and encouragement.”

9.1.1 Local Emphasis

Cycling is primarily a local activity since most trips do not exceed five miles. Experienced cyclists routinely ride further than this and their cross-community travel should be accommodated. However, if it is a community goal to make localized cycling a viable option for personal transportation, then cyclist mobility must be improved and enhanced throughout the community, especially to important local destinations. Even though State or Federal policies may influence or even dictate some design and implementation decisions, it is local decisions that will most significantly affect the potential for cycling within a community.

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The basis for a bicycle-friendly community can be established by instituting appropriate policies through the development and adoption of this bicycle master plan. A program of physical improvements and workable implementation strategies that reflects local needs was developed as part of this master plan. A bicycle master plan will be of little value if it is not part of an active and ongoing planning process that continually seeks to integrate cycling considerations into all areas of local planning.

Within this master plan, facility design guidelines have been tailored to local conditions, but are also consistent with national guidelines, such as the AASHTO Guide to Development of Bicycle Facilities. State guidelines are also referenced, specifically, Caltrans Highway Design Manual, Chapter 1000, Bikeway Planning and Design and the Caltrans Traffic Manual. Elements of these guidelines without relevance to the region have been excluded.

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Public involvement can be promoted through the formation of a bicycle advisory committee as a new city committee, or as a subcommittee of an appropriate existing committee. Its primary benefit would be in providing an avenue for public participation and support.



Bicycle Coordinator

City government involvement can occur through the designation of a bicycle coordinator. For a city the size of Imperial Beach, this may be a part-time position or integrated with an existing position, but this does not diminish its importance. Since a truly comprehensive bicycle planning effort will involve many city departments including Public Works, Parks and Recreation, Planning and Traffic Engineering, as well as local school boards and the Sheriff's Department, the bicycle coordinator would be in a position to organize interdepartmental efforts and make certain that bicycle concerns are integrated into other city activities in the planning stages, as well as coordinated with adjacent communities and jurisdictions.

Public Officials

The third aspect of institutionalization of bicycle planning involves obtaining the commitment of public officials. Leadership for bicycle improvements may already come from public officials, but even if it does not, officials will be more likely to be supportive if they can be certain their constituency wants a more bicycle-friendly community.

9.1.4 Primary Planning Considerations

The safety, efficiency and enjoyment of the bike facility by expected users should be the primary considerations employed in the planning of new bicycle facilities. More specifically, such considerations should include the following:

- Direct and convenient alignment to serve trip origins and destinations;
- Access to and from existing and planned bicycle facilities;
- Avoiding abrupt facility discontinuity;
- Avoiding steep grades whenever possible;
- Adequate lighting and sight lines;
- Convenient bicycle parking at destinations; and
- Adequate commitment to maintenance.

9.1.5 Integration with Other City Plans and Programs

Bikeway facility planning requires a high level of coordination because it is directly affected by the planning decisions of other City departments, as well as those of adjacent communities, the county, regional and state agencies. Land use, zoning, street design, open space and park planning all affect how bicycle-friendly a community can be. For examples, land use patterns affect cycling by determining the locations of trip origins and destinations by such means as creating areas of employment and housing densities sufficient to sustain bicycle facilities, or by providing a balance of housing and jobs by encouraging multi-use development. Access or bicycle parking facilities can often be included in developments at a low cost. Also, the provision of better access and connections between developments for cyclists and pedestrians may be more easily provided if the need is understood and articulated as early as possible in the planning process.

Effective bicycle planning requires review of regional transportation plans, local street plans, park and open space plans and even site plan review. Transportation plans provide opportunities for low cost improvements to be designed into subsequent projects. Local street plans provide opportunities to implement changes that make streets more conducive to cycling using techniques such as traffic calming to reduce motor vehicle speeds. Park and open space planning may provide opportunities to acquire greenways and to build multi-use trails. Site plan review provides opportunities to ensure that project design accommodates cyclists through the provision of improvements such as access or parking facilities and that the project's vehicular traffic does not decrease the safety of cyclists of adjacent facilities.

9.1.6 Education and Encouragement

Education and encouragement of cycling are important elements of any bicycle planning effort and can occur through instructional venues such as school curricula and through the efforts of large employer-based transportation programs. There is no shortage of educational materials available through a number of private and government organizations. The



dissemination of meaningful information can also be augmented by the participation of local businesses such as bike shops, especially since they have a vested interest in promoting safe cycling in Imperial Beach. Education and encouragement rarely receive the attention they deserve even when included in bikeway master plans and this is where a bicycle coordinator can be of help in developing appropriate programs.

9.1.7 Regulating Land Use and Community Design to Benefit Cycling

Land use and design options are largely determined by regulatory functions that, in turn, help to define community character and functionality. These regulatory functions such as subdivision regulations, zoning requirements and developer exactions are also often used to set requirements for amenities in new development projects. These same regulations can be used to help define development patterns more conducive to cycling such as incorporating more mixed use, higher densities and connections between communities and land uses. Street patterns and hierarchy can greatly affect average daily (motor vehicle) trips (ADTs), connectivity and motor vehicle speeds, which in turn positively or negatively affects cycling. Street design can be modified to discourage high motor vehicle speeds and to provide width for a bike lane. Linear open space can become land for greenway routes that benefit all non-motorized users, not just cyclists.

Though prioritization of bikeway projects is defined by State and local decisions, it is Federal funding and policies that currently encourage the use of transportation funds for bicycle and pedestrian projects. However, Federal funding cannot be counted upon as a reliable source for the foreseeable future since it depends on the political nature of legislative action. Bicycle planning cannot sustain itself on the occasional Federal grant. Future local implementation will more likely depend on instituting bicycle improvements as part of infrastructural projects, which is when they are most cost-effective.

Similarly, the most economical way to include bicycle facilities in private development is through initial project planning and design, not as an afterthought. Ordinances can be written that bikeway systems be included as part of new developments. An effort should be made to show developers that such requirements are worthwhile because they create well established marketing advantages gained from providing pedestrian and bicycle amenities. Ordinances can also require bicycle amenities such as bicycle parking, showers and lockers at employment sites. In all cases, a bicycle master plan is important for establishing priorities for such public/private projects.

Review of developments for transportation impacts should address how on-site bicycle facilities are planned. Bicycle storage racks should be provided at commercial facilities at locations convenient to building entrances and covered from the elements. This is especially important at retail and service establishments. At employment sites, secure bicycle racks and/or lockers should be provided. For outdoor parking, lockers are preferred because they completely secure the bicycle from theft of the entire bicycle or its parts and are weather-proof.

Requiring developments near commuter rail stations to provide access pathways to these transit centers as part of urban in-fill may improve multi-modal connections for pedestrians and cyclists alike. Other developers should contribute to bicycle master plan implementation projects in newly developing areas. Park land dedication or fees in lieu of dedication is another possible component of strategies to acquire local trail and bicycle path rights-of-way.

9.1.8 Bicycle Parking Facilities

The selection and placement of bicycle racks is an important issue because the lack of secure parking keeps many people from using their bikes for basic transportation. Leaving a bicycle unattended, even for short periods, can easily result in damage or theft. Not being able to find a bike rack or finding one that does not work or is not conveniently located is a frustrating experience.





Whenever possible, the racks should be placed within 50 feet of building entrances where cyclists would naturally transition to pedestrian mode. The rack placement would ideally allow for visual monitoring by people within the building and/or people entering the building. The placement of the racks should minimize conflicts with both pedestrians and motorized traffic. All bicycle parking provided should be on paving, and located a minimum of two feet from a parallel wall, and four feet from a perpendicular wall (as measured to the closest center of the rack).

Like most American municipalities, no real facility inventory is available for Imperial Beach. However, there are bicycle parking facilities at the larger retail centers, at City Hall, Community Centers and some parks and other City facilities.

Imperial Beach could implement a minimum bicycle parking ordinance like that of the City of Encinitas (EMC 30.54.030.C) that defines bicycle parking facilities as "...stationary racks or devices designed to secure the frame and wheel of the bicycle." The ordinance lists the following provisions:

- Buildings housing administrative/professional office space, shopping centers and other commercial uses of less than 20,000 square feet of floor area must provide a minimum of three bicycle parking spaces. Facilities with more than 20,000 square feet must supply a minimum of five spaces.
- Shopping centers with over 50,000 square feet of gross floor area must supply one bicycle parking space for every 33 required automobile spaces.
- Restaurants of less than 6,000 square feet of floor area must provide two spaces and restaurants with more than 6,000 square feet must provide five spaces.
- Recreation facilities must provide one bicycle space per 33 required automobile parking space.
- Hospitals and churches must provide eight bicycle spaces.

The City should continue to encourage the use of alternate forms of transportation by also requiring the provision of shower facilities for employers with greater than a specified number of employees.

To help achieve parity with drivers, the City could codify by ordinance, or develop a program to provide bike racks in existing commercial areas, and in new or existing multi-family development designed without private garages. These programs should include bike rack design and installation standards such as those in the following section.

The following paragraphs and graphics focus on outdoor installations using racks intended to accommodate conventional, upright, single-rider bicycles and the use a solid, U-shaped lock, or a cable lock, or both.

Rack Element

The rack element is the part of the bike rack that supports one bicycle. It should support the bicycle by its frame in two places, prevent the bicycle wheel from tipping over, allow the frame and one or both wheels to be secured and support bicycles with unconventional frames.

"Inverted U" type racks are most recommended because each element can support two bicycles. Commonly used "wave" type racks are not recommended because they support the bicycle at only one point. Cyclists often park their bikes parallel with the rack, instead of perpendicular as intended, which reduces the rack capacity by half.



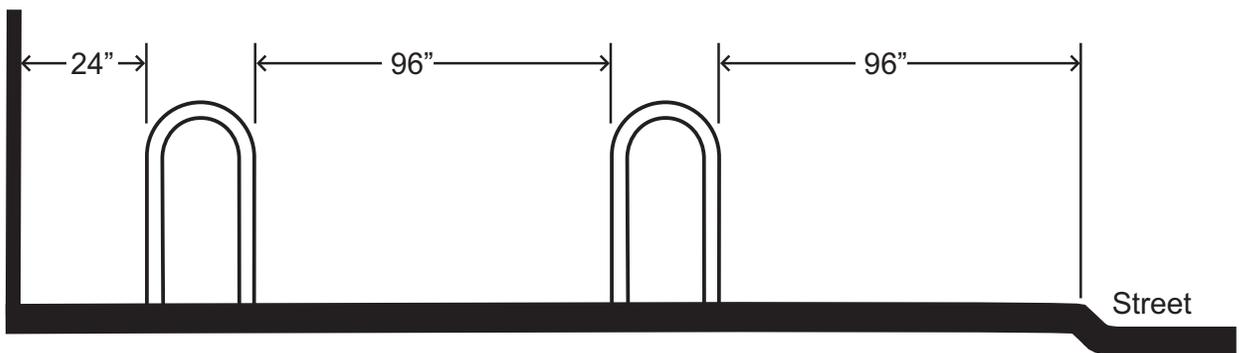
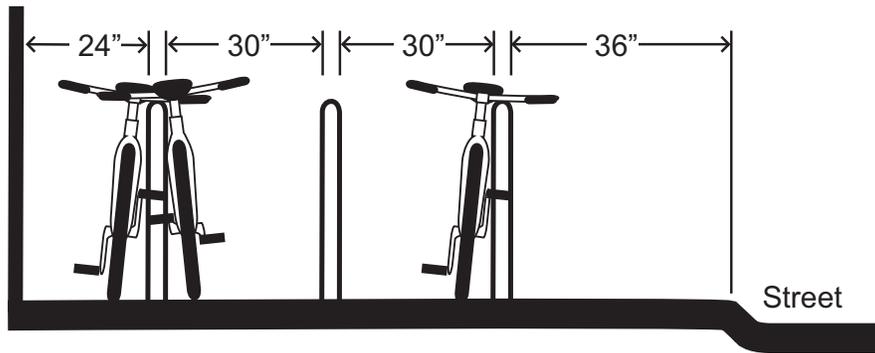
The rack element should also resist being cut or detached using common hand tools, especially those that can be concealed in a backpack. Such tools include bolt cutters, pipe cutters, wrenches and pry bars.

Rack

The rack itself is one or more rack elements joined on a common base or arranged in a regular array and fastened to a common mounting surface.

The rack elements may be attached to a single frame or remain single elements mounted in close proximity. They should not be easily detachable from the rack frame or easily removed from the mounting surface. The rack should be anchored so that it cannot be stolen with the bikes attached such as with vandal-resistant fasteners.

The rack should provide easy, independent bike access. Typical inverted “U” rack elements mounted in a row should be placed on 30” centers. Normally, the handlebar and seat heights will allow two bicycles to line up side-by-side in opposite directions. If it is too inconvenient and time-consuming to squeeze the bikes into the space and attach a lock, cyclists will look for an alternative place to park or use one rack element per bike and reduce the projected parking capacity by half.

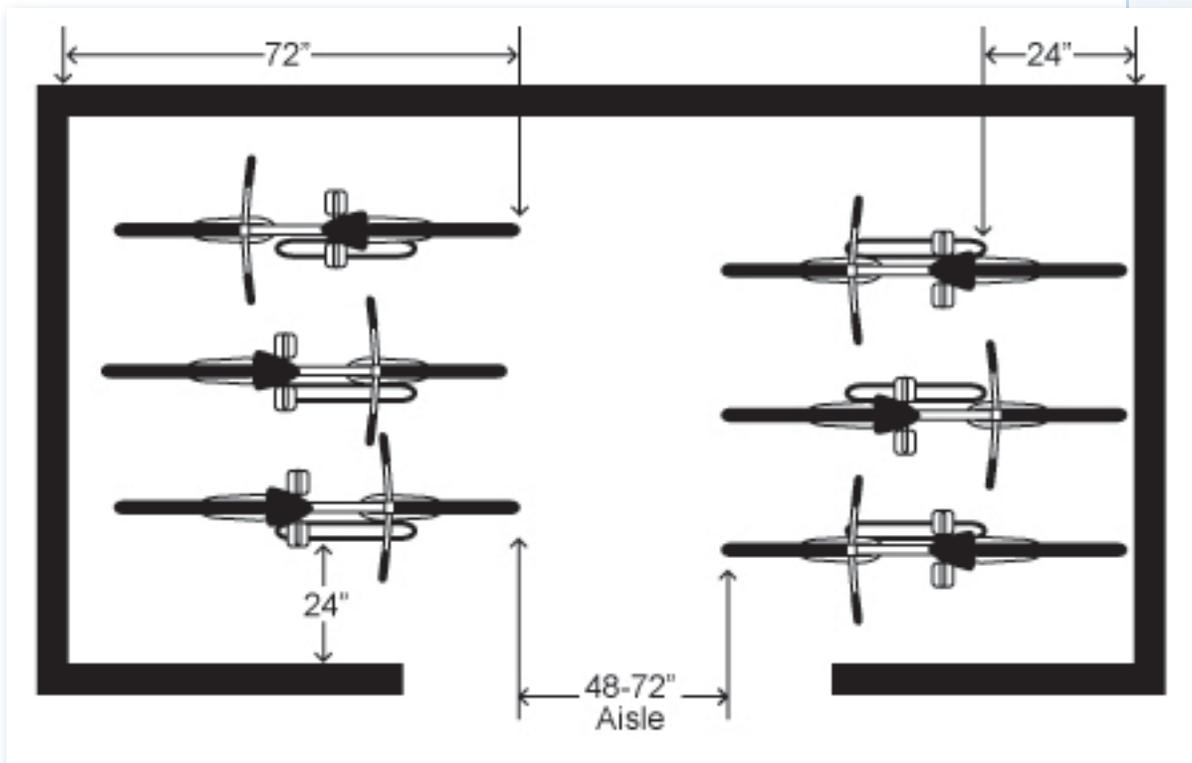




Rack Area

The rack area is a bicycle parking lot where racks are separated by aisles.

A rack area or “bicycle parking lot” is an area where more than one rack is installed separated by aisles measured from tip to tip of bike tires across the space between racks. The minimum separation between aisles should be 48 inches, which provides enough space for one person to walk one bike. In high traffic areas where many users park or retrieve bikes at the same time, such as at colleges, the recommended aisle width is 72 inches. The depth of each row of parked bicycles should also be 72 inches.



Large rack areas in high turnover areas should have more than one entrance. If possible, the rack area should be protected from the elements. Even though cyclists are exposed to sun, rain and snow while en route, covering the rack area keeps the cyclist more comfortable while parking, locking the bike and loading or unloading cargo. A covering will also help keep the bicycle dry, especially the saddle.

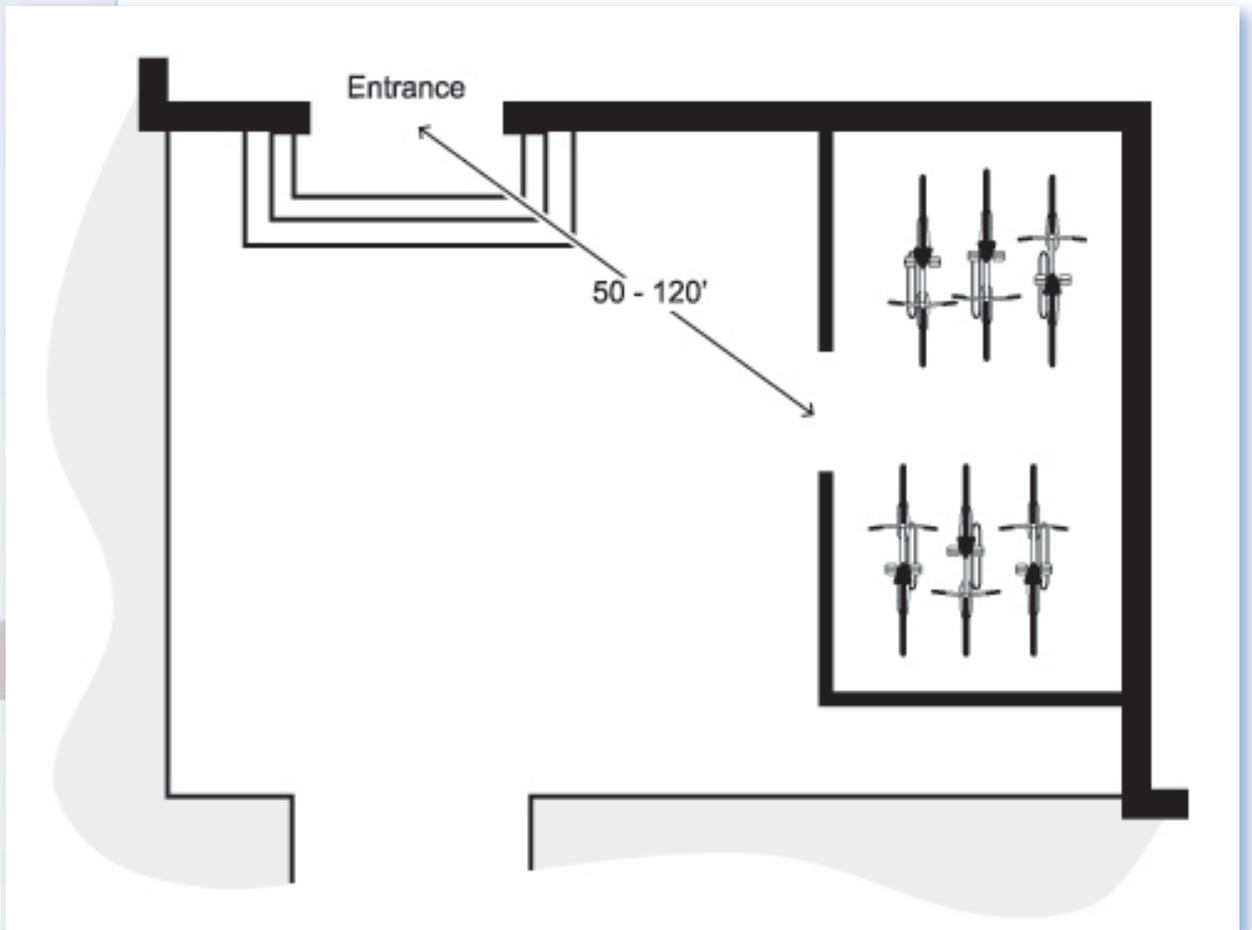
Rack Area Site

The rack area site is the relationship of a rack area to the building entrance or approach. In general, smaller, conveniently located rack areas should serve multiple buildings, rather than a larger combined, distant one. Racks far from the entrance or perceived to be where bikes will be vulnerable to vandalism will not receive much use.

Rack area location in relationship to the building it serves is very important. The best location is immediately adjacent to the entrance it serves, but racks should not be placed where they can block the entrance or inhibit pedestrian flow. The rack area should be located along a major building approach line and clearly visible from the approach.

The rack area should be no more than a 30-second walk (120 feet) from the entrance it serves and should preferably be within 50 feet. A rack area should be as close or closer than the nearest car parking space, be clearly visible from the entrance it serves and be near each actively used entrance.





Creative Design

There are many creative, three-dimensional bicycle parking racks that work very well. Creative designs should carefully balance form with function. Whatever the rack configuration, the critical issue is that the rack element supports the bike in two places and allows the bicycle to be securely locked. All racks must be carefully manufactured and maintained to prevent weaknesses at the joints that might compromise bicycle security.

9.1.9 Locating Bicycle Facilities on Roadways

The appropriateness of a roadway facility for bicycling is influenced by a number of factors. These factors can generally be classified into the following categories:

Land Use and Location Factors

These factors represent the most significant category affecting compatibility. Since bicycle trips are generally shorter than motor vehicle or mass transit trips, there must be a manageable distance between origins and destinations, such as between residential areas and places of employment. There are certain key land uses, which are especially likely to generate bicycle traffic if good bicycle facilities are available. These consist of, but are not limited to, transit centers, schools, employment centers with nearby residential areas, recreation areas and mixed use areas.

Physical Constraint Factors

These consist of roadway geometric or physical obstacles to bicycling, which are difficult or costly to remedy. For example, a roadway may be appropriate because of location factors, but not appropriate because of the existence of physical constraints to bicycling such as a narrow bridge, insufficient right-of-way or intersections with restricted lane widths resulting from lane channelization. The feasibility of correcting these physical constraints must be weighed in designating bikeways.





Traffic Operations Factors

These include traffic volume, speed, the number of curb cuts or conflict points along the roadway, sight distance and bicycle-sensitive traffic control devices. Experienced cyclists will use roadways even if they have limiting traffic operational factors, but less confident cyclists will perceive such roadways as unsafe and intimidating. These roadway facilities should be designed or improved to accommodate cyclists through the shared use of roadways. However, they are inappropriate for full designation as bikeways.

Other safety issues such as maintenance and pavement repair are also important considerations in the designation of bikeways, but do not directly affect the planning aspects of appropriate facilities.

9.1.10 Integrating Bicycle Facilities into the Roadway Planning Process

Planning for bicycle facilities on roadways should begin at the very earliest stage of project development on all sizes and types of roadway projects. Even the smallest roadway reconstruction project could result in a missed opportunity if cyclists are not taken into consideration at the initiation of the project. At the municipal level, planners should address these roadway planning issues in the comprehensive context of the Circulation Element in the City's General Plan.

The Bikeway Master Plan is a planning tool for the development of bikeway facilities. It is intended to complement the City's adopted roadway standards, and the General Plan's Circulation Element. The roadway standards rely on the Bikeway Master Plan to provide guidance on the location, type and recommended design of bikeway facilities.

The following procedure offers the planner and designer general guidance in determining the need for bikeways during the usual phases of project development.

Needs Assessment

The first step in the planning process for any transportation project is the assessment of needs. Existing and planned land use, current and projected traffic levels and the special needs of the area population are examined. There are circumstances in which a portion of the transportation need might be served by non-motorized means, as well as locations where existing bicycle demand would be better served by improved facilities. The following land use and location factors assist in recognizing the potential for non-motorized travel and evaluating the needs of cyclists at the street level. The roadway:

- Serves an activity center, which could generate bicycle trips;
- Is included on a county or municipal bicycle master plan;
- Provides continuity with or between existing bicycle facilities, including those of adjacent cities;
- Is located on a roadway, which is part of a mapped bike route or utilized regularly by local bicycle clubs;
- Passes within two miles of a transit center;
- Passes within two miles of a high school or college;
- Passes within a half mile of an elementary school or middle school;
- Passes through an employment center, especially if there is a significant residential area within a three mile radius; or
- Provides access to a recreation area or otherwise serves a recreation purpose.

If any one of these factors exists, the roadway has the potential to attract less experienced bicycle riders and/or significant numbers of advanced riders. As a result, it should be considered as potentially appropriate for designation as a bikeway.

The planner should include a description of the potential significance of the roadway as a bikeway facility in the project initiation or scoping document that will be forwarded to the project designer. If the planner determines that the project is potentially appropriate for



designation as a bikeway, the nature of potential bicycle use should be addressed, including factors affecting roadway design, such as roadway truck volumes or intersections.

Preliminary Engineering

Roadway facilities that have been determined through needs assessment to be potentially appropriate for bikeways should be analyzed to determine whether any physical constraints exist that may limit the facility type that could be provided. The following factors should be considered:

- Sufficient right-of-way exists, or additional right-of-way can be acquired to allocate the required space for a bikeway;
- Physical impediments or restrictions exist, but they can be avoided or removed to allow for the required pavement width to provide a bikeway;
- Bridges allow for bicycle access in accordance with bikeway standards; and
- Travel or parking lanes can be reduced in width or eliminated to allow space for bikeways.

If these factors occur, a bikeway should be recommended at the completion of the preliminary engineering phase for the following situations:

- Transportation facilities or segments that connect bicycle traffic generators within five miles of each other; or
- Segments of transportation facilities that provide continuity with existing bicycle facilities.

If physical constraint factors that preclude allocation of space and designation of bikeways exist along a particular roadway and cannot be avoided or remedied, these factors should be reported to the project manager in the final design phase and alternative design treatments should be generated.

Planning and engineering should consider more than roadway cross-sections. Often, the most difficult potential areas of conflict are at intersections. In general, high speed interchanges, merge lanes and wide radius curbs are unsafe for cyclists and should be avoided.

Final Design And Facility Selection

Class 2 facilities are usually more suitable in urban settings on roads with high traffic volumes and speeds. Class 3 facilities are often used in urban settings to guide cyclists along alternate or parallel routes that avoid major obstacles, or have more desirable traffic operational factors.

In rural settings, Class 2 facilities are not usually necessary to designate preferential use. On higher volume roadways, wide shoulders offer cyclists a safe and comfortable riding area. On low volume roadways, most cyclists prefer the appearance of a narrow, low speed country road.

Table 1 (following page) recommends the type of bikeway and pavement width for various traffic conditions. For locations where pavement widths do not meet the criteria listed in the table, the local municipal bicycle authority should be consulted to assist in the decision-making process.

Where physical obstructions exist that can be removed in the future, the roadway facility should be designed to meet bikeway space allocation requirements and upgraded and designated when the physical constraint is remedied (i.e., bridge is replaced and improved to allow designated facility).

The final design should be coordinated with the bicycle coordinator for review and approval prior to construction.





- Existing and projected traffic volumes and speeds;
- Existence of parking (Can parking be restricted or removed to allow better sight distances?);
- Excessive intersection-conflict points (Can intersection-conflict points be reduced along roadways?);
- Turn lanes at intersections that can be designed to allow space for cyclists;
- Sections with insufficient sight distance or roadway geometrics be changed; or
- Traffic operations be changed or “calmed” to allow space and increased safety for cyclists.

Table 9-1: Recommended Lane Widths

Posted Speed Limit	Urban w/ Parking	Urban w/o Parking	Rural
1,200 to 2,000 ADTs			
<30 mph	12 ft. SL	11 ft. SL	10 ft. SL
31-40 mph	14 ft. SL	14 ft. SL	12 ft. SL
41-50 mph	15 ft. SL	15 ft. SL	3 ft. SH
>50 mph	NA	4 ft. SH	4 ft. SH
2,000 to 10,000 ADTs			
<30 mph	14 ft. SL	12 ft. SL	12 ft. SL
31-40 mph	14 ft. SL	14 ft. SL	3 ft. SH
41-50 mph	15 ft. SL	15 ft. SL	4 ft. SH
>50 mph	NA	6 ft. SH	6 ft. SH
More than 10,000 ADTs or Trucks over 5%			
<30 mph	14 ft. SL	14 ft. SL	14 ft. SL
31-40 mph	14 ft. SL	4 ft. SH	4 ft. SH
41-50 mph	15 ft. SL	6 ft. SH	6 ft. SH
>50 mph	NA	6 ft. SH	6 ft. SH

Notes:
 Primarily applicable to Class 3 and "Undesignated" routes.
 SH = Shoulder, SL = Shared Lane
 Shared lane is acceptable for volumes less than 1,200 ADTs.
 Provide 8' shoulder for volumes greater than 10,000 ADTs.



9.2 General Physical Guidelines

The following sections cover physical design guidelines applicable to all bikeway facility types. Guidelines specific to Class 1, 2 and 3 facilities are covered in subsequent sections.

9.2.1 Pavement Width

At a minimum, all roadway projects shall provide sufficient width of smoothly paved surface to permit the shared use of the roadway by bicycles and motor vehicles.

Table 1 is based on the FHWA publication, *Selecting Roadway Design Treatments to Accommodate Bicycles*. Pavement widths represent minimum design treatments for accommodating bicycle traffic. These widths are based on providing sufficient pavement for shared use by bicycle and motor vehicle traffic and should be used on roadway projects as minimum guidelines for bicycle compatible roads. Note that these are recommendations that do not supersede current City roadway standards, and they apply to Class 3 routes only.

Considerations in the selection of pavement width include traffic volume, speed, sight distance, number of large vehicles (such as trucks) and grade. The dimensions given in Table 1 for shared lanes are exclusive of the added width for parking, which is assumed to be eight feet. On shared lanes with parking, the lane width can be reduced if parking occurs only intermittently. On travel lanes where curbs are present, an additional one foot is necessary.

On very low volume roadways with ADTs of less than 1,200, even relatively high speed roads pose little risk for cyclists since there will be high probability that an overtaking motor vehicle will be able to widely pass a bicycle. When an overtaking car is unable to immediately pass a bicycle, only a small delay for the motorist is likely. Both cyclists and motorists jointly use these types of roadways in a safe manner and widening of these roads is not usually recommended. Costs of providing widening of these roads can seldom be justified based on either capacity or safety.

Similarly, moderately low volume roadways with ADTs between 1,200 and 2,000 generally are compatible for bicycle use and will have little need for widening. However, since there is a greater chance of two opposing cars meeting at the same time as they must pass a cyclist, providing some room at the outside of the outer travel lane is desirable on faster speed roadways. On low speed roadways, motorists should be willing to accept some minimal delay.

With ADTs from 2,000 to 10,000, the probability becomes substantially greater that a vehicle overtaking a bicycle may also meet another oncoming vehicle. As a result, on these roads, some room at the edge of the roadway should be provided for cyclists. This additional width should be two to three feet added to a typical 10-foot outer travel lane. At low speeds, such as below 25 m.p.h., little separation is needed for both a cyclist and a motorist to feel comfortable during a passing maneuver. With higher speeds, more room is needed.

At volumes greater than 10,000 ADTs, vehicle traffic in the curb lane becomes almost continuous, especially during peak periods. As a result, cyclists on these roadways require separate space to safely ride, such as a Class 2 facility. In addition, improvements to the roadway edge and the shoulder area will be valuable for motorists as well.

Caltrans guidelines for highways recommend that a full eight-foot paved shoulder be provided for State highways. On highways having ADTs greater than 20,000 vehicles per day, or on which more than five percent of the traffic volume consists of trucks, every effort should be made to provide such a shoulder for the benefit of cyclists, to enhance the safety of motor vehicle movements and to provide “break down” space, as well as a Class 2 facility. Otherwise, the highway should probably not be designated as a bicycle facility.



9.2.2 Sight Distance

Roadways with adequate sight distance will allow a motorist to see, recognize, decide on the proper maneuver, and initiate actions to avoid a cyclist. Adequate decision sight distance is most important on high speed highways and narrow roadways where a motorist would have to maneuver out of the travel lane to pass a cyclist.

The pavement widths given in Table 1 are based on the assumption that adequate sight distance is available. In situations where there is not adequate sight distance, provision of additional width may be necessary.

9.2.3 Truck Traffic

Roadways with high volumes of trucks and large vehicles, such as recreational vehicles, need additional space to minimize cyclist/motorist conflicts on roadways. Additional width allows trucks to overtake cyclists with less maneuvering and the cyclists will experience less lateral force from truck drafts. This additional width will also provide greater sight distance for following vehicles.

Although there is no established threshold, additional space should be considered when truck volumes exceed five percent of the traffic mix, or on roadways that serve campgrounds, or where a high level of tourist travel is expected using large recreational vehicles. Where truck volumes exceed 15 percent of the total traffic mix, widths shown on Table 1 should be increased by one foot minimum.

9.2.4 Steep Grades

Steep grades influence overtaking of cyclists by motorists. Inexperienced cyclists climbing steep grades are often unsteady (wobbly) and may need additional width. Also, the difference in speed between a slow, climbing cyclist and a motor vehicle results in less time for the driver to react and maneuver around a cyclist. Motor vehicle slowing on a steep grade to pass a cyclist can result in a diminished level of service.

9.2.5 Unavoidable Obstacles

Short segments of roadways with multiple unavoidable obstacles that result in inadequate roadway width are acceptable on bicycle compatible roadways if mitigated with signing or striping. Typical examples include bridges with narrow widths and sections of roadway that cannot be widened without removing significant street trees. These conditions preferably should not exist for more than a quarter of a mile, or on high speed highways. “Zebra” warning striping should be installed to shift traffic away from the obstacle and allow for a protected buffer for bicycle travel.

In situations where a specific obstacle such as a bridge abutment cannot be avoided, a pavement marking consisting of a single six inch white line starting 20 feet before and offset from the obstacle can also be used to alert cyclists that the travel lane width will soon narrow ahead. (See Section 1003.6 of the Caltrans *Highway Design Manual* for specific instructions.)

In either situation, where bicycle traffic is anticipated, a “SHARE THE ROAD” sign should be used to supplement the warning striping. On longer sections of roadway that are irrevocably narrow, edge striping should be employed to narrow the travel lane and apportion pavement space for a partial shoulder. In situations where even these measures may not provide adequate roadway space for cyclists, it is recommended that an alternate route be designated.

9.2.6 Pavement Design

Though wider tires are now very common and bicycle suspension systems are becoming increasingly prevalent, bicycles still require a riding surface without significant obstacles or pavement defects because they are much more susceptible to such surface irregularities than are motor vehicles. Asphalt is preferred over concrete where shoulders are employed.



The outside pavement area where bicycles normally operate should be free of longitudinal seams. Where transverse expansion joints are necessary on concrete, they should be saw cut to ensure a smooth transition. In areas where asphalt shoulders are added to existing pavement, or where pavement is widened, pavement should be saw cut to produce a tight longitudinal joint to minimize wear and expansion of the joint.

9.2.7 Raised Roadway Markers

Raised roadway markers such as reflectors or rumble strips should not be used on roadway edges where bicycles are most likely to operate because they create a surface irregularity that can be hazardous to bicycle stability. Painted stripes or flexible reflective tabs are preferred. In no case should strips of raised reflectors intended to warn motorists to reduce vehicle speeds prior to intersections be allowed to cross through the bicycle travel lane.

9.2.8 Utilities

Because bicycles are much more sensitive to pavement irregularities than motor vehicles, utility covers should be adjusted as a normal function of any pavement resurfacing or construction operations. Failure to do so can result in the utility cover being sunken below the paving surface level which creates a hazard experienced cyclists refer to as “black holes.” Also, it is common practice to excavate trenches for new utilities at road edges, the same location as bicycle facilities. When such trenching is completed, care should be given to replacing the full surface of the bicycle lane from the road edge to the vehicle travel lane instead of narrow strips that tend to settle or bubble, causing longitudinal obstructions. Replacement of the bike lane striping should also be required.

9.2.9 Drainage Facilities

Storm water drainage facilities and structures are usually located along the edge of roadways where they can present conflicts with cyclists. Careful consideration should be given to the location and design of drainage facilities on roadways with bicycle facilities.

All drainage grate inlets pose some hazard to bicycle traffic. The greatest hazard comes from stream flow drainage grates which can trap the front wheel of a bicycle and cause the cyclist to lose steering control, or allow the narrow bicycle wheels to drop into the grate. Another type of hazard may be caused by cyclists swerving into the lane of traffic to avoid a grate or cover. Riding across any wet metal surface increases the chances of a sudden slip fall.

Only a “bicycle safe” drainage grate with acceptable hydraulic characteristics should be used. The inlet grate should be used in all normal applications and should be installed flush with the final pavement. Where additional drainage inlet capacity is required because of excessive gutter flow or grade (greater than two percent), double inlets should be considered. Depressed grates and stream flow grates should not be used except in unique or unusual situations that require their use and only outside the lane sharing area. Where necessary, depressed grates should only be installed on shoulders six feet wide or greater. Where projects offer the possibility for replacement of stream flow grates located in the lane sharing area, these grates should be replaced with the “bicycle safe” grate.

When roads or intersections are widened, new bicycle safe drainage grates should be installed at a proper location at the outside of the roadway, existing grates and inlet boxes should be removed and the roadway reconstructed. Drainage grate extensions, the installation of steel or iron cover plates or other “quick fix” methods which allow for the retention of the subsurface drain inlet are unacceptable measures since they will create a safety hazard in the portion of the roadway where cyclists operate.

Manholes and covers should be located outside of the lane sharing area wherever possible. Utility fixtures located within the lane sharing area, or any travel lane used by bicycle traffic, should be eliminated or relocated. Where these fixtures cannot be avoided, the utility fixture cover should be made flush with the pavement surface.





9.2.10 Combination Curb and Gutter

These types of curbs reduce space available for cyclists. The width of the gutter pan should not be used when calculating the width of pavement necessary for shared use by cyclist. On steep grades, the gutter should be set back an additional one foot to allow space to avoid high speed crashes caused by the longitudinal joint between the gutter pan and pavement. Where the combination curb and gutter is used, pavement width should be calculated by adding one foot from the curbed gutter.

9.2.11 Bridges

Bridges provide essential crossings over obstacles such as rivers, rail lines and high speed roadways, but they have been almost universally constructed for the expedience of motor vehicle traffic and often have features that are not desirable for bicycling. Among these features are widths that are narrower than the approach roadways (especially when combined with relatively steep approach grades), low railings or parapets, high curbs and expansion joints that can cause steering problems.

Though sidewalks are generally not recommended for cycling, there are limited situations such as long or narrow bridges where designation of the sidewalk as an alternate bikeway facility can be beneficial to cycling, especially when compared to riding in the narrow bridge roadway. This is only recommended where the appropriate curb cuts, ramps and signage can also be included. Using the bridge sidewalk as a bikeway facility is especially useful where pedestrian use is expected to be minimal. Appropriate signage directed to all potential users should be installed so that they will be aware of the shared use situation. Bridge railings or barrier curb parapets where bicycle use is anticipated should be a minimum of 4.5 feet high.

Short of wholesale replacement of existing narrow bridges over rail lines and highways, there are a few measures to substantially improve safety for cyclists. Signage warning motorists of both the presence of cyclists and the minimal bridge width should be installed at the bridge approaches. "Zebra" warning stripe areas should be painted along high curbs to deter cyclists from riding too close to them, which can result in the pedal hitting these high, curbs, causing a crash. This situation is of particular concern since the cyclist will want to stay as far to the right as possible to avoid passing motor vehicles traffic, even though riding far to the right increases the chances of hitting the high curb.

Though the first alternative mentioned above, bridge replacement, is the preferred alternative for bridges that are too narrow, it is the least likely to occur due to cost. A second alternative is to direct cyclists to alternate, safer routes, but this will not always be practical since highway and rail crossing points are usually limited in number and considerable distances apart. In any case, these other crossing points may well have similar width restrictions.

A third alternative is to build separate bridges for cyclist and pedestrian use. Where access warrants a workable solution, this could be a cost-effective long-term solution compared to rebuilding the motor vehicle bridge. These additional bridges could be built adjacent to the motor vehicle bridges, or be installed well away from them, depending upon where best to conveniently accommodate cyclists and pedestrians. An advantage to constructing the bridges away from the motor vehicle bridges is that only one bridge would be needed since building bicycle/pedestrian bridges immediately adjacent to existing motor vehicle bridges would require constructing two one-way spans, one on each side of the roadway, for optimum user safety.

If sidewalk widths are sufficient, directing cyclists to use the sidewalks and installing ramps at the bridge ends is a possible solution. In general, sidewalks are not recommended as a cycling venue and riding on sidewalks is illegal, but in cases where narrow bridges are not expected to be rebuilt for an extended period of time, this may be a reasonable alternative. If possible, a railing should be installed between the roadway and the sidewalk.



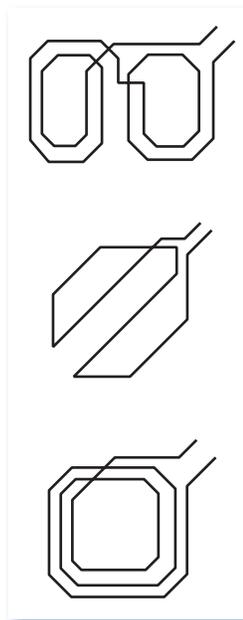
Finally, it should be noted that all the other alternatives are inherently inferior to the first alternative of rebuilding narrow bridges in terms of safety, and should only be considered where the first alternative cannot be implemented.

9.2.12 Traffic Control Devices

As legitimate users of California's roadways, cyclists are subject to essentially the same rights and responsibilities as motorists. In order for cyclists to properly obey traffic control devices, those devices must be selected and installed to take their needs into account. All traffic control devices should be placed so cyclists who are properly positioned on the road can observe them. This includes programmed visibility signal heads.

Traffic Signals and Detectors

Traffic-actuated signals should accommodate bicycle traffic. Detectors for traffic-activated signals should be sensitive to bicycles, should be located in the cyclist's expected path and stenciling should direct the cyclist to the point where the bicycle will be detected. Examples of successful bicycle-sensitive signal detector installation and their specific applications are shown below.



Quadrupole Loop

- Detects most strongly in center
- Sharp cut-off of sensitivity
- Used in bike lanes

Diagonal Quadrupole Loop

- Sensitive over whole area
- Sharp cut-off of sensitivity
- Used in shared lanes

Standard Loop

- Detects strongest over wires
- Gradual cut-off
- Used in advanced detection

Since detectors can fail, added redundancy in the event of failure is recommended in the form of pedestrian push buttons at all signalized intersections. These buttons should be mounted in a location that permits their activation by a cyclist without having to dismount.

It is common for bicycles to be made of so little ferrous metals that they may not be detectable by many currently installed types of loop detectors. As a convenience for cyclists, the strongest loop detection point should be marked with a standard symbol (See Figure 1003.2D: Bike Loop Detector Pavement Marker in Caltrans *Highway Design Manual, Chapter 1000 - Bikeway Planning and Design*).

Where left turn lanes are provided and only protected left turns are allowed, bicycle sensitive loop detectors should be installed in the left turn lane, or a pedestrian style push button should be provided that is accessible to the cyclist in the median immediately adjacent to the turn lane to permit activation of the left turn phase. Where moderate or heavy volumes of bicycle traffic exist, or are anticipated, bicycles should be considered in the timing of the traffic signal cycle as well as in the selection and placement of the traffic detector device. In such cases, short clearance intervals should not be used where cyclists must cross multi-lane streets. According to the 1991 AASHTO *Guide for the Development of Bicycle Facilities*, a



bicycle speed of 10 m.p.h. and a perception/reaction time of 2.5 seconds can be used to check the clearance interval. Where necessary, such as for particularly wide roadways, an all-red clearance interval can be used.

In general, for the sake of cyclist safety, protected left turns are preferred over unprotected left turns. In addition, traffic signal controlled left turns are much safer for cyclists than left turns at which motorists and cyclists must simply yield. This is because motor vehicle drivers, when approaching an unprotected left turn situation or planning to turn left at a yield sign, tend to watch for other motor vehicles and may not see an approaching cyclist. More positive control of left turns gives cyclists an added margin of safety where they need it most.

Signing

When designating a bicycle route, the placement and spacing of signs should be based on the Caltrans *Traffic Manual* and *Highway Design Manual*. For bike route signs to be functional, supplemental plaques can be placed beneath them when located along routes leading to high demand destinations (e.g. “To Downtown,” “To Transit Center,” etc.) Since bicycle route continuity is important, directional changes should be signed with appropriate arrow sub-plaques. Signing should not end at a barrier. Instead, information directing the cyclist around the barrier should be provided.

According to the *Manual on Uniform Traffic Control Devices (MUTCD)* Part 2A-6: “Care should be taken not to install too many signs. A conservative use of regulatory and warning signs is recommended as these signs, if used to excess, tend to lose their effectiveness. On the other hand, a frequent display of route markers and directional signs to keep the driver informed of his location and his course will not lessen their value.”

“BIKE ROUTE” - This sign is intended for use where no unique designation of routes is desired. However, when used alone, this sign conveys very little information. It can be used in connection with supplemental plaques giving destinations and distances. (See Section 1003-3 of the Caltrans *Highway Design Manual* and Part 9B-22 of the *MUTCD* for specific information on sub-plaque options.)

Roadways appropriate for bicycle use, but are undesignated, usually do not require regulatory, guide or informational signing in excess of what is normally required for motorists. In certain situations, however, additional signing may be needed to advise both motorists and cyclists of the shared use of the roadway, including the travel lane.

“SHARE THE ROAD” - This sign is recommended where the following roadway conditions occur:

- Shared lanes (especially if lane widths do not comply with Table 1) with relatively high posted travel speeds of 40 m.p.h. or greater;
- Shared lanes (conforming with Table 1) in areas of limited sight distance;
- Situations where shared lanes or demarcated shoulders or marked bike lanes are dropped or end and bicycle and motor vehicle traffic must begin to share the travel lane;
- Steep descending grades where bicycle traffic may be operating at higher speeds and requires additional maneuvering room to shy away from pavement edge conditions;
- Steep ascending grades, especially where there is no paved shoulder, or the shared lane is not adequately wide and bicycle traffic may require additional maneuvering room to maintain balance at slow operating speeds;
- High volume urban conditions, especially those with travel lanes less than the recommended width for lane sharing;
- Other situations where it is determined to be advisable to alert motorists of the likely presence of bicycle traffic and to alert all traffic of the need to share available roadway space.



9.2.13 Intersections and Driveways

High speed, wide radius intersection designs with free rights turns, multiple right turn lanes, and wide radius turns increase traffic throughput for motor vehicles by minimizing speed differentials between entering and exiting vehicles and through vehicles. However, these designs are dangerous for cyclists (and pedestrians) by design since they exacerbate speed differential problems faced by cyclists traveling along the right side of a roadway and encourage drivers to fail to yield the right-of-way to cyclists. As a result, Caltrans District 11 (San Diego County area) no longer allows such wide radius free right turns at interchanges.

Where they already exist, specific measures should be employed to ensure that the movement of cyclists along the roadway will be visible to motorists and to provide cyclists with a safe area to operate to the left of these wide radius right turn lanes. One method to accomplish this is to stripe (dash) a bicycle lane throughout the intersection area. Also, “SHARE THE ROAD” signs should be posted in advance of the intersection to alert existing traffic. In general, however, curb radii should be limited to short distances, which helps to communicate to the motorist that he or she must yield the right-of-way to cyclists traveling and pedestrians walking along the sidewalk or roadway margin approaching the intersection.

Even so, wherever possible, such intersection conditions should be eliminated. Reconstruction of intersections to accomplish this is a legitimate use of bicycle program funds.

Sand, gravel and other debris in the cyclist’s path present potential hazards. In order to minimize the possibility of debris from being drawn onto the pavement surface from unpaved intersecting streets and driveways, during new construction, reconstruction and resurfacing, all unimproved intersecting streets and driveways should be paved back to the right-of-way line or a distance of 10 feet. Where curb cuts permit access to roadways from abutting unpaved parking lots, a paved apron should be paved back to the right-of-way line, preferably 10 feet from the curb line. These practices will lessen the need for maintenance debris removal. The placement of the paved back area or apron should be the responsibility of those requesting permits for access via curb cuts from driveways and parking lots onto the roadway system.

9.2.14 Roadside Obstacles

To make certain that as much of the paved surface as possible is usable by bicycle traffic, obstructions such sign posts, light standards, utility poles and other similar appurtenances should be set back a one foot minimum “shy distance” from the curb or pavement edge with exceptions for guard rail placement in certain instances. Additional separation distance to lateral obstructions is desirable. Where there is currently insufficient width of paved surface to accommodate bicycle traffic, any placement of equipment should be set back far enough to allow room for future projects (widening, resurfacing) to bring the pavement width into conformance with these guidelines. Vertical clearance to obstructions should be a minimum of 8 feet, 6 inches. (See Section 1003.1 of the Caltrans Highway Design Manual.)

9.2.15 Railroad Crossings

As with other surface irregularities, railroad grade crossings are a potential hazard to bicycle traffic. To minimize this hazard, railroad grade crossings should, ideally, be at a right angle to the rails. This minimizes the possibility of a cyclist’s wheels being trapped in the rail flangeway, causing loss of control. Where this is not feasible, the shoulder (or wide outside lane) should be widened, or “bumped out” to permit cyclists to cross at right angles. (See Section 1003.6 of the Caltrans Highway Design Manual.)

It is important that the railroad grade crossing be as smooth as possible and that pavement surfaces adjacent to the rail be at the same elevation as the rail. Pavement should be maintained so that ridge buildup does not occur next to the rails.



Options to provide a smooth grade crossing include removal of abandoned tracks, use of compressible flangeway fillers, timber plank crossings or rubber grade crossing systems. These improvements should be included in any applicable project.

9.2.16 TSM Type Improvements

Transportation Systems Management (TSM) improvements are minor roadway improvements which enhance motor vehicle flow and capacity. They include intersection improvements, channelization, addition of auxiliary lanes, turning lanes and climbing lanes. TSM improvements must consider the needs of bicycle traffic in their design, or they may seriously degrade the ability of the roadway to safely accommodate cyclists. The inclusion of wider travel lanes or adjacent bike lanes will decrease traffic conflicts and increase vehicular flow. Designs should provide for bicycle compatible lanes or paved shoulders. Generally, this requires that the outside through lane and (if provided) turning lane be 14 feet wide. Auxiliary or climbing lanes should conform to Table 1 by either providing an adjacent paved shoulder, or a shared lane width of at least 15 feet. Where shared lanes and shoulders are not provided, it must be assumed that bicycle traffic will take the lane.

9.2.17 Marginal Improvements and Retrofitting Existing Roadways

There may be instances or locations where it is not feasible to fully implement guidelines pertaining to the provision of adequate pavement space for shared use due to environmental constraints or unavoidable obstacles. In such cases, warning signs and/or pavement striping must be employed to alert cyclists and motorists of the obstruction, alert motorists and cyclist of the need to share available pavement space, identify alternate routes (if they exist), or otherwise mitigate the obstruction.

On stretches of roadway where it is not possible to provide recommended shoulder or lane widths to accommodate shared use, bicycle traffic conditions can be improved by:

- Striping wider outside lanes and narrower interior lanes; or
- Providing a limited paved shoulder area by striping a narrow travel lane. This tends to slow motor vehicle operating speeds and establish a space (with attendant psychological benefits) for bicycle operation.

Where narrow bridges create a constriction, “zebra” striping should be used to shift traffic away from the parapet and provide space for bicycle traffic.

Other possible strategies include:

- Elimination of parking or restricting it to one side of the roadway;
- Reduction of travel lanes from two in each direction to one in each direction plus center turn lane and shoulders; or
- Reduction of the number of travel lanes in each direction and the inclusion or establishment of paved shoulders.

9.2.18 Access Control

Frequent access driveways, especially commercial access driveways, tend to convert the right lane of a roadway and its shoulder area into an extended auxiliary acceleration and deceleration lane. Frequent turning movements, merging movements and vehicle occupancy of the shoulder can severely limit the ability of cyclists to utilize the roadway and are the primary causes of motor vehicle-bicycle collisions. As a result, access control measures should be employed to minimize the number of entrances and exits onto roadways. For driveways having a wide curb radius, consideration should be given to marking a bicycle lane through the driveway intersection areas. As with other types of street intersections, driveways should be designed with sufficiently tight curb radii to clearly communicate to motorists that they must fully stop and then yield the right-of-way to cyclists and pedestrians on the roadway.



9.2.19 Bikeway Reconstruction after Construction

Since roadways with designated bicycle facilities carry the largest volumes of users, their reconstruction should be of particular concern. Unfortunately, bicycle facilities are often installed piecemeal and users can find themselves facing construction detours and poor integration of facilities where the facilities begin and end.

Bicycles facilities also sometimes seem to “disappear” after roadway construction occurs. This can happen incrementally as paving repairs are made over time and are not followed by proper bikeway re-striping. When combined with poor surface reconstruction following long periods out of service due to road work, this can result in the eventual loss of affected bikeway facilities and decrease the number of cyclists regularly using the facilities.

Adjacent construction projects that require the demolition and rebuilding of roadway surfaces can cause problems in maintaining and restoring bikeway function. Construction activities controlled through the issuance of permits, especially driveway, drainage, utility, or street opening permits, can have an important effect on the quality of a roadway surface where cyclists operate. Such construction can create hazards such as mismatched pavement heights, rough surfaces or longitudinal gaps in adjoining pavements, or other pavement irregularities.

Permit conditions should ensure that pavement foundation and surface treatments are restored to their pre-construction conditions, that no vertical irregularities will result and that no longitudinal cracks will develop. Stricter specifications, standards and inspections designed to prevent these problems should be developed, as well as more effective control of construction activities wherever bikeways must be temporarily demolished. A five-year bond should be held to assure correction of any deterioration, which might occur as a result of faulty reconstruction of the roadway surface.

Spot widening associated with new access driveways frequently results in the relocation of drainage grates. Any such relocation should be designed to permanently close the old drainage structure and restore the roadway surface. New drainage structures should be selected and located to comply with drainage provisions established in these guidelines.

9.2.20 Maintenance Priorities

Bikeway maintenance is easily overlooked. The “sweeping” effect of passing motor vehicle traffic readily pushes debris such as litter and broken glass toward the roadway edges where it can accumulate within an adjoining bicycle facility. Since the potential for loss of control can exist due to a blowout caused by broken glass, or through swerving to avoid other debris, proper maintenance is directly related to safety. For this reason, street sweeping must be a priority on roadways with bike facilities, especially in the curb lanes and along the curbs themselves. The police department could assist by requiring towing companies to fully clean up crash scene debris, or face a fine. This would prevent glass and debris from being left in place after a motor vehicle crash, or simply swept to the curb or shoulder area.

A suggested minimum monthly sweeping schedule is recommended for heavily used Class 1 and 2 facilities, and twice a year where use is light. Class 3 facilities should be swept twice a year.

The availability of a forum through which citizens can conveniently notify the proper city authority of bikeway facility problems or shortcomings is desirable. Several local cities make available a service request form via their Internet home pages to allow citizens to report problems such as streets, sidewalks, tree trimming and other civil engineering and infrastructural issues. They generally do not mention bicycle facilities specifically in their list of selected problems, but do offer the user the opportunity to type in the particulars of any street-related issue.





9.2.21 Intermodal Planning and Facilities

Creating an environment conducive to intermodal transit begins with providing the proper types of facilities and amenities in locations convenient enough to attract potential users. Such facilities can include those described in the following sections.

Bike Lockers and Racks

The provision of bicycle racks and lockers is an important first step in making a multi-modal system work for cyclists. Their presence encourages cyclists to use available transit because these facilities help to alleviate concerns about security, primarily theft or vandalism of bicycles parked for long periods.

Bus-mounted Racks

The provision of bus-mounted bicycle racks on bus routes should encourage cyclists to use the bus system, especially in the eastern sections of the City where topography is the most pronounced. These racks are mounted on the front of the bus to increase visibility between the bus driver and the cyclist using the rack and to decrease the chance of theft while the bus is stopped.

9.2.22 Traffic Calming

There exist roadway conditions in practically all communities where controlling traffic movements and reducing motor vehicle speeds is a worthwhile way to create a safer and less stressful environment for the benefit of non-motorized users such as pedestrians and cyclists. These controlling measures are referred to as traffic calming. These measures are also intended to mitigate impacts of vehicular traffic such as noise, crashes and air pollution, but the primary link between traffic calming and bicycle planning is the relationship between motor vehicle speed and the severity of crashes. European studies have shown that instituting traffic calming techniques significantly decreases the number of pedestrian and cyclist fatalities in crashes involving motor vehicles, as well as the level of injuries and air pollution, without decreasing traffic volume.

Stop Signs/Yield Signs

The installation of stop signs is a common traffic calming device intended to discourage vehicular through traffic by making the route slower for motorists. However, stop signs are not speed control devices, but rather right-of-way control devices. They do not slow the moving speed of motor vehicles and compliance by cyclists is very low. Requiring motor vehicles to stop excessively also contributes to air pollution. Cyclists are even more inconvenienced by stop signs than motorists because unnecessary stopping requires them to repeatedly reestablish forward momentum. The use of stop signs as a traffic management tool is not generally recommended unless a bicycle route must intersect streets with high motor vehicle traffic volumes. Controlled intersections generally facilitate bicycle use and improve safety and stop signs tend to facilitate bicycle movement across streets with heavy motor vehicular traffic. An alternative to stop signs may be to use yield signs or other traffic calming devices as methods to increase motorist awareness of crossing cyclists.

Speed Bumps and Tables

Though many cities are no longer installing speed bumps, they have been shown to slow motor vehicle traffic speeds and reduce volume. If speed bumps are employed as a traffic management tool, a sufficiently wide gap must be provided to allow unimpeded bicycle travel around the bump to prevent safety hazards for cyclists. Standard advance warning signs and markers must be installed as well.

Partial Traffic Diverters

These traffic calming devices include roundabouts and chicanes, both of which force traffic to follow a curved path, which had formerly been straight. They are usually employed in areas of traditional grid street configuration. These devices can actually increase traffic hazards if they are not substantial enough to decrease motor vehicle speeds, or if appropriate side street access points are not controlled.



Total Traffic Diverters

These diverters close roadways to motor vehicles only, or divert them to other routes while continuing to provide access to non-motorized users. Partial diverters allow access for cyclists in both directions, but block motor vehicle entry at one end. Both devices reduce motor vehicle driver options as a means to reduce the local traffic volume while allowing unrestricted access for pedestrians and cyclists. They are only useful where bicycles are fully exempt from the restrictions preventing the access of motor vehicles. Bicycle access should be clearly signed where motor vehicle access is limited so that cyclists are made aware that they can proceed even though motor vehicles cannot.

Curb Extensions and Radius Reductions

Larger curb radii are intended to facilitate high speed right-turn movements for the convenience of motorists. However, these larger radii are more dangerous for crossing and adjacent cyclists and pedestrians both because of the resulting higher motor vehicle speeds and the longer crossing distance for the cyclists and pedestrians. Motorists tend to spend less time looking for pedestrians and cyclists when they are attempting to make a high speed turn because their attention is focused on watching for oncoming traffic from the left. Their tendency to watch for pedestrians crossing from the right is also reduced. In addition, this type of intersection encourages higher speed movements across the bicycle travel lane, increasing the risk of collisions. To avoid these problems, curb radii should be reduced and curb extensions installed that pinch in toward the motor vehicle traffic lanes. This narrowing of the roadway tends to reduce traffic speeds, which creates a longer period for drivers to see potential conflicts before making right turns. However, due to the resulting reductions in motor vehicle speeds, this approach may not be appropriate at congested intersections. In such cases, there should instead be a safe lane and crossover segment especially for cyclists.

Extensions are curb bulbs extending into the intersection from the corners of one or both of the intersecting roadways. Reducing curb radii functionally narrows the intersection, shortening the crossing distance for pedestrians and cyclists and slowing approaching traffic. Curb extensions are even more effective than reduced curb radii in decreasing crossing distance and slowing traffic. They can also serve the additional purposes of defining parking lanes and improving visibility at corners.

The use of curb extensions should be confined to residential areas and commercial zones with moderate posted speed limits since they prevent the use of the curb lane for cycling in favor of vehicular parking. Reduced curb radii can be used more widely, or on streets with routine large truck use requiring right turns.

9.3 Class 1 Multi-Use Path Guidelines

Class 1 facilities are generally paved multi-use paths, separated from motor vehicle traffic. Off-street routes are rarely constructed for the exclusive use of cyclists since other non-motorized user types will also find such facilities attractive. For that reason, the facilities recommended in this master plan should be considered multi-use where cyclists will share the pathways with other users. Recommended Class 1 paths are intended to provide commuting and recreational routes unimpeded by motor vehicle traffic.

No matter what their primary focus, most cyclists will find bicycle paths inviting routes to ride, especially if travel efficiency is secondary to enjoyment of cycling. Since these paths can augment the existing roadway system, they can extend circulation options for cyclists, making trips feasible which would not otherwise be possible if the cyclists had to depend exclusively on roadways, especially in areas where usable roads are limited. Class B and C (casual riders and children) cyclists would likely also appreciate the relative freedom from conflicts with motor vehicles compared to riding on typical roadways.

By law, the presence of a Class 1 route near an existing roadway does not justify prohibiting bicycles on the parallel or nearly parallel roadway. Where a bikeway master plan calls for





Class 1 routes parallel to the alignments of planned roadways, these roadways should still be designed to be compatible with bicycle use. Two reasons to retain parallel facilities are that an experienced cyclist may find Class 1 paths inappropriate because of intensive use, or the routes may not be direct enough. By the same token, the Class 1 path will likely be much more attractive to less experienced cyclists than a parallel facility on the street.

In general, Class 1 facilities should not be placed immediately adjacent to roadways. Where such conditions exist, Class 1 facilities should be offset from the street as much as possible and separated from it by a physical barrier. These measures are intended to promote safety for both the cyclists and the motorists by preventing unintended movement between the street and the Class 1 facility. (See Section 1003.1 (5) of the Caltrans Highway Design Manual.)

9.3.1 Class 1 Planning Issues Shared-Use of Multiple Use Paths

Since off-street paths (Class 1) are now generally regarded as multi-use and not for the exclusive use of cyclists, they must be designed for the safety of both cyclists and other expected user types. Heavy use of multi-use trails can create conflicts between different types of users. These conflicts can include speed differentials between inexperienced and experienced cyclists as well as between pedestrians, joggers and in-line skaters, differences in the movements typical of particular user types and even the kinds of groupings common to the different user types as they casually move down the pathway.

As long as volumes are low, the level of conflict between different user types can be managed without enforcement. However, even moderate increases in user volume can create substantial deterioration in level of service and safety. Conflicts between different user types are especially likely to occur on regionally significant recreational trails that attract a broad diversity of users, such as the Bayshore Bikeway. In general, paths that are expected to receive heavy use should be a minimum of 14 feet wide, paths expected to experience moderate use should be at least 12 feet wide and low volume paths can be 10 feet wide. Caltrans Class 1 requirements call for eight feet (2.4 meters) as the minimum width with two-foot (0.6 meters) clear areas on each side.

Regulation of Multiple Use Paths

The potential for multiple-use path conflicts has increased substantially in recent years with the increased popularity of jogging and in-line skating. Where multi-use paths were once commonly used primarily by pedestrians and secondarily by cyclists, today they tend to be used by a combination of pedestrians, cyclists and in-line skaters. In-line skating continues to be one of the fastest growing sport in America. Also, the majority of bicycles sold in the United States over the last decade have been mountain and “comfort” bikes, far outstripping sales of drop-bar type road bike sales. These bikes’ relative comfort and upright riding position have helped to encourage inexperienced cyclists who previously rarely rode to do so more often.

Methods used to reduce trail conflicts have included providing separate facilities for different groups, prohibiting certain user types, restricting certain uses to specific hours, widening existing facilities or marking lanes to regulate traffic flow. Examples of all of these types of actions occur along southern California’s coastal trails where conflicts between different user types can be especially severe during peak periods.

Compatibility of Multiple Use of Paths

Joint use of paths by cyclists and equestrians can pose problems due to the ease with which horses can be startled. Also, the requirements of a Class 1 bikeway facility include a solid surface, which is not desirable for horses. Therefore, where either equestrian or cycling activity is expected to be high, separate trails are recommended. On facilities where Class 1 designation is not needed and the facility will be unpaved, mountain bikes and horses can share the trail if adequate passing width is provided, the expected volume of traffic by



both groups is low and available sight distances allow equestrians and cyclists to see and anticipate each other. Education of all path users in “trail etiquette” has also proven to be successful on shared paths.

Urban Access Pathways

Conflicts between different user types on multiple use routes occur primarily on heavily used recreational paths, or near major pedestrian trip generators. Lightly used neighborhood pathways and community trails can be safely shared by a variety of user types. Construction of urban access pathways between adjoining residential developments, schools, neighborhoods and surrounding streets can substantially expand the circulation opportunities for both pedestrians and cyclists.

However, bicycle use of urban access pathways should not include sidewalks adjacent to streets for a number of reasons. First, sidewalks are designed for pedestrian speeds and maneuverability. Second, they are usually encumbered by parking meters, utility poles, benches, trees, etc. Third, other types of users and their specific types of maneuverability can also pose a safety issue for cyclists.

Though sidewalks are, in general, not conducive to safe cycling, an exception is Class C cyclists, young children. This type of bicycle use is generally acceptable because it provides young children who do not yet have the judgment or skill to ride in the street an opportunity to develop their riding skills. Sidewalks in residential areas generally have low pedestrian volumes and are usually accepted as play areas for children.

Finally, one other exception to sidewalk use by cyclists should be allowed. This is where the walkway is at least eight feet wide and well away from streets, such as within parks. In such cases, bicycle use on walkways can occur safely.

Bicycle Paths Adjacent to Roadways

Two-way bicycle facilities located immediately adjacent to a roadway are not recommended because they require one direction of bicycle traffic to ride against motor vehicle traffic, contrary to the normal “Rules of the Road.” This puts the wrong way cyclists in the motorists’ “blind spot” at intersections where they do not have the right-of-way, or are not noticed by motorists turning right because the cyclists are not on the roadway. Many cyclists will also find it less convenient to ride on this type of facility as compared to streets, especially for utility trips such as commuting. This more experienced group of cyclists may find the roadway more efficient, safer, or better maintained than the adjacent bicycle facility. The AASHTO guide states that: “...bicycle lanes, or shared roadways should generally be used to accommodate bicycle traffic along highway corridors rather than providing a bicycle path immediately adjacent to the highway.”

9.4 Design of Class 1 Facilities (Paths Primarily Used by Bicycles)

A substantial portion of the following sections is taken directly from the *AASHTO Guide for the Development of Bicycle Facilities*, 1991. Note that AASHTO’s use of the term “bicycle path” is equivalent to a “Class 1 bicycle facility” as defined by Caltrans and as used in this master plan. Also, the AASHTO term “highway” is synonymous with the term “roadway.” Finally, all measurements in the Caltrans documents are in metric form.

9.4.1 Width and Clearance

The paved width and the operating width required for a bicycle path are primary design considerations. Under most conditions, recommended paved width for a two-directional bicycle path is 10 feet. In some instances, however, a minimum of eight feet can be adequate. This minimum should be used only where the following conditions prevail: (1) bicycle traffic is expected to be low, even on peak days or during peak hours; (2) pedestrian use of the facility is not expected to be more than occasional; (3) there will be good horizontal and vertical alignment providing safe and frequent passing opportunities; and (4) the path will





not be subject to maintenance vehicle loading conditions that would cause pavement edge damage. Under certain conditions, it may be necessary or desirable to increase the width of bicycle path to 12 feet or more, for example, because of substantial bicycle volume, probable shared use with joggers and other pedestrians, use by large maintenance vehicles, steep grades, or where bicycles will be likely to ride two abreast.

Reduced widths are acceptable on access pathways due to their generally short length and low volumes. However, wherever possible, minimum width standards should be employed. One-directional bicycle facilities are not generally recommended since they will almost certainly be used as two-way facilities.

A minimum of a two foot wide graded area should be maintained adjacent to both sides of the pavement. However, three feet or more is desirable to provide clearance from trees, poles, walls, fences, guardrails, or other lateral guidelines. A wider graded area on either side of the bicycle path can also serve as a separate jogging or equestrian path. Vertical clearance from obstructions should be a minimum of eight feet. However, greater vertical clearance may needed to permit maintenance vehicle passage and, in undercrossings and tunnels, a clearance of 10 feet is desirable for adequate vertical shy distance.

9.4.2 Horizontal Separation from Roadways

Class 1 bicycle facilities are generally physically separated from roadways. However, where a Class 1 facility must be considered within a roadway right-of-way, a wide separation between a bicycle path and adjacent highway is desirable to confirm for both the cyclist and the motorist that the bicycle path functions as an independent highway for bicycle traffic. In addition to physical separation, landscaping or other visual buffer is desirable. When this is not possible and the distance between the edge of the roadway and the bicycle path is less than five feet, a suitable physical divider may be considered. Such dividers serve both to prevent cyclists from making unwanted movements between the path and the highway shoulder for the protection of cyclists from motor vehicles and to reinforce the concept that the bicycle path is an independent facility. Where used, the divider should be a minimum of 4.5 feet high to prevent cyclists from toppling over it and it should be designed so that it does not become an obstruction or traffic hazard in itself.

9.4.3 Design Speed

The speed that a cyclist travels is dependent on several factors, including the type and condition of the bicycle, the purpose of the trip, the condition and location of the bicycle path, the speed and direction of the wind and the physical condition of the cyclist. Bicycle paths should be designed for a selected speed that is at least as high as the preferred speed of the faster cyclists. In general, a minimum design speed of 20 m.p.h. should be used. However, when the grade exceeds four percent, a design speed of 30 m.p.h. is advisable.

On unpaved paths, where cyclists tend to ride slower, a lower design speed of 15 m.p.h. can be used. Similarly, where the grades dictate, a higher design speed of 25 m.p.h. can be used. Since bicycles have a higher tendency to skid on unpaved surfaces, horizontal curvature design should take into account lower coefficients of friction.

9.4.4 Horizontal Alignment and Superelevation

The minimum radius of curvature negotiable by a bicycle is a function of the superelevation rate of the bicycle path surface, the coefficient of friction between the bicycle tires and the bicycle path surface and the speed of the bicycle. The minimum design radius of curvature can be derived from the following formula:

$$R = \frac{V^2}{127 \left(\frac{e}{100} + f \right)}$$

R = Minimum radius of curvature (meters)
 V = Design speed (k.p.h.)
 e = Rate of superelevation
 f = Coefficient of friction



For most bicycle path applications, the superelevation rate will vary from a minimum of two percent (the minimum necessary to encourage adequate drainage) to a maximum of approximately five percent (beyond which maneuvering difficulties by slow bicycles and adult tricyclists might be expected). The minimum superelevation rate of two percent will be adequate for most conditions and will simplify construction.

The coefficient of friction depends upon speed; surface type, roughness and condition; tire type and condition; and whether the surface is wet or dry. Friction factors used for design should be selected based upon the point at which centrifugal force causes the cyclist to recognize a feeling of discomfort and instinctively act to avoid higher speed. Extrapolating from values used in highway design, design factors for paved bicycle paths can be assumed to vary from 0.30 at 15 m.p.h. to 0.22 at 30 m.p.h. Based on a superelevation rate (e) of two percent, minimum radii of curvature can be selected from Figure 1003.1C of the Caltrans *Highway Design Manual*.

When substandard radius curves must be used on bicycle paths because of right-of-way, topography, or other considerations, standard curve warning signs and supplemental pavement markings should be installed in accordance with the Caltrans Highway Design Manual. The negative effects of substandard curves can also be partially offset by widening the pavement through the curves.

9.4.5 Grade

Grades on bicycle paths should be kept to a minimum, especially on long inclines. Grades greater than five percent are undesirable because the ascents are difficult for many cyclists and the descents cause some cyclists to exceed the speeds at which they are competent. Where terrain dictates, grades over five percent and less than 500 feet long are acceptable when a higher design speed is used and additional width is provided.

9.4.6 Switchbacks

In areas of steep terrain, a series of “switchbacks” may be the only solution to traversing changes in elevation. At these locations, a grade of eight percent is acceptable for a distance of no more than 100 feet. Where applicable, grades steeper than eight percent will not meet Americans with Disabilities Act (ADA) standards. Switchback radii should be larger than normally employed for pedestrian facilities to allow for cyclists to be able to safely make the turns without having to dismount. Pavement width should be a minimum of 12 feet wide to allow ascending cyclists room to walk their bicycles when necessary. The switchbacks should be completely visible from the next uphill turn. Runouts at the end of each turn should be considered for cyclists unable to slow down quickly enough to make the turn. Railings may be installed to discourage shortcuts and appropriate signing should be placed at the top of the descent.

9.4.7 Sight Distances

To provide cyclists with an opportunity to see and react to the unexpected, a bicycle path should be designed with adequate stopping sight distance. The distance required to bring a bicycle to a full controlled stop is a function of the cyclist’s perception and brake reaction time, the initial speed of the bicycle, the coefficient of friction between the tires and the pavement and the braking ability of the bicycle. Figure 1003.1D of the Caltrans *Highway Design Manual* indicates the minimum stopping sight distance for various design speeds and grades based on a coefficient of 0.25 to account for the poor wet weather braking characteristics of many bicycles. For two-way bicycle paths, the sight distance in descending direction, that is, where “G” is negative, will control the design.

9.4.8 Intersections

Intersections with roadways are important considerations in bicycle path design. If alternate locations for a bicycle path are available, the one with the most favorable intersection conditions should be selected. For crossings of freeways and other high-speed, high-volume arterials, a grade separation structure may be the only possible or practical treatment. Unless



bicycles are prohibited from the crossing highway, providing for turning movements must be considered. When intersections occur at grade, a major consideration is the establishment of right-of-way. The type of traffic control (signal, stop sign, yield sign, etc.) to be used and locations should be provided in accordance with the Caltrans *Traffic Manual*.

Sign type, size and location should also be in accordance with the Caltrans *Traffic Manual*. Care should be taken to ensure that bicycle path signs are located so that motorists are not confused by them and that roadway signs are placed so that they do not confuse cyclists. Other means of alerting cyclists of a highway crossing include lateral deflections or small vertical deflections, as well as changing the paving surface at the approach. Devices installed to prohibit motorists from entering the bike path can also assist with alerting cyclists to crossings, but they must be well marked, including with reflective markings.

It is preferable that the crossing of a bicycle path and a highway be at a location away from the influence of intersections with other highways. Controlling vehicle movements at such intersections is more easily and safely accomplished through the application of standard traffic control devices and normal "Rules of the Road." Where physical constraints prohibit such independent intersections, the crossings may be at or adjacent to the pedestrian crossing. Right-of-way should be assigned and sight distance should be provided so as to minimize the potential for conflict resulting from unconventional turning movements. At crossings of high volume multi-lane arterial highways where signals are not warranted, consideration should be given to providing a median refuge area for cyclists.

The entrances to Class 1 paths can sometimes create crossing conflicts. Methods to resolve this include signalized striped crosswalks with pedestrian push-buttons, bicycle loop detectors and pavement logos, bicycle signal heads, in-pavement flashing lights at unsignalized intersections, and various traffic calming techniques. Bollards should also be placed at the entrance to the path to keep vehicles from entering.

When bicycle paths terminate at existing roads, it is important to integrate the path into the existing system of roadways. Care should be taken to properly design the terminals to transition the traffic into a safe merging or diverging situation. Appropriate signing is necessary to warn and direct both cyclists and motorists regarding these transition areas.

Bicycle path intersections and approaches should be on relatively flat grades. Stopping sight distances at intersections should be checked and adequate warning should be given to permit cyclists to stop before reaching the intersection, especially on downgrades.

Ramps for curb cuts at intersections should be the same width as the bicycle paths. Curb cuts and ramps should provide a smooth transition between the bicycle paths and the roadway.

9.4.9 Signing and Marking

Adequate signing and marking are essential on bicycle paths, especially to alert cyclists to potential conflicts and to convey regulatory messages to both cyclists and motorists at highway intersections. In addition, guide signing, such as to indicate directions, destinations, distance, route numbers and names of crossing streets, should be used in the same manner as they are used on highways. In general, uniform application of traffic control devices, as described in the Caltrans *Highway Design and Traffic Manuals*, will tend to encourage proper cyclist behavior.

A designer should consider a four-inch wide yellow centerline stripe to separate opposite directions of travel if heavy volumes of bicycles are expected, on curves with restricted sight distances; and on unlighted paths where nighttime riding is expected. Edge lines can also be very beneficial where significant nighttime bicycle traffic is expected.



General guidance on signing and marking is provided in the Caltrans *Highway Design Manual*. Care should be exercised in the choice of pavement marking materials. Some marking materials are slippery when wet and should be avoided in favor of more skid-resistant materials.

9.4.10 Pavement Structure

Under most circumstances, a two-inch thick asphalt top course placed on a six-inch thick select granular sub-base is suitable for a bikeway pavement structure. Where unsatisfactory soils can be anticipated, a soil investigation should be conducted to determine the load-carrying capabilities of the native soil and the need for any special provisions.

In addition, some basic differences between the operating characteristics of bicycles and those of motor vehicles should be recognized. While loads on bicycle paths will be substantially less than typical roadway loads, paths should be designed to sustain without damage the wheel loads of occasional emergency, patrol, maintenance and other motor vehicles that are expected to use or cross the path. Where such motor vehicle use will be required, four inches of asphalt should be used. Additional pavement structure may also be necessary in flood plains and in locations where shallow root systems may heave thin pavement sections.

Special consideration should be given to the location of motor vehicle wheel loads on the path. When motor vehicles are driven on bicycle paths, their wheels will usually be at or very near the edges of the path. Since this can cause edge damage that, in turn, will result in the lowering of the effective operating width of the path, adequate edge support should be provided. Edge support can be either in the form of stabilized shoulders or in constructing additional pavement width. Constructing a typical pavement width of 12 feet, where right-of-way and other conditions permit, eliminates the edge-raveling problem and offers two other additional advantages over shoulder construction. First, it allows additional maneuvering space for cyclists and second, the additional construction cost can be less than that for constructing shoulders because the separate construction operation is eliminated.

It is important to construct and maintain a smooth riding surface on bicycle paths. Bicycle path pavements should be machine laid. Root barriers should be used where necessary to prevent vegetation from rupturing the pavement over time, and on Portland cement concrete pavements, transverse joints, necessary to control cracking, should be saw cut to provide a smooth ride. On the other hand, skid resistance qualities should not be sacrificed for the sake of smoothness. Broom finish or burlap drag concrete surfaces are preferred over trowel finishes, for example.

At unpaved highway or driveway crossings of bicycle paths, the highway or driveway should be paved a minimum of 10 feet on each side of the crossing to reduce the amount of gravel being scattered along the path by motor vehicles. The pavement structure at the crossing should be adequate to sustain the expected loading at the location.

9.4.11 Structures

An overpass, underpass, small bridge, drainage facility or facility on a highway bridge may be necessary to provide continuity to a bicycle path. On new structures, the minimum clear width should be the same as the approach paved bicycle path and the desirable clear width should include the minimum two-foot wide clear areas. Carrying the clear areas across the structures has two advantages. First, it provides a minimum horizontal shy distance from the railing or barrier, and second, it provides needed maneuvering space to avoid conflicts with pedestrians and other cyclists who are stopped on the bridge. Access by emergency, patrol and maintenance vehicles should be considered in establishing the design clearances of structures on bicycle paths. Similarly, vertical clearance may be dictated by occasional motor vehicles using the path. Where practical, a vertical clearance of 10 feet is desirable for adequate vertical shy distance.





Railings, fences, or barriers on both sides of a bicycle path structure should be a minimum of 4.5 feet high. Smooth rub rails should be attached to the barriers at handlebar height of 3.5 feet.

Bridges designed exclusively for bicycle traffic may be designed for pedestrian live loading. On all bridge decks, special care should be taken to ensure that bicycle safe expansion joints are used.

Where it is necessary to retrofit a bicycle path onto an existing highway bridge, several alternatives should be considered in light of what the geometrics of the bridge will allow.

One option is to carry the bicycle path across the bridge on one side. This should be done where the bridge facility will connect to a bicycle path at both ends, sufficient width exists on that side of the bridge, or can be obtained by widening or re-striping lanes; and provisions are made to physically separate bicycle traffic from motor vehicle traffic as discussed above.

A second option is to provide either wide curb lanes or bicycle lanes over the bridge. This may be advisable where the bicycle path transitions into bicycle lanes at one end of the bridge; and sufficient width exists, or can be obtained by widening or re-striping.

A third option is to use existing sidewalks as one-way or two-way facilities. This may be advisable where conflicts between cyclists and pedestrians will not exceed tolerable limits, and the existing sidewalks are adequately wide. Under certain conditions, the cyclist may be required to dismount and cross the structure as a pedestrian.

Because of the large number of variables involved in retrofitting bicycle facilities onto existing bridges, compromises in desirable design criteria are often inevitable. Therefore, the width to be provided is best determined by the designer, on a case-by-case basis, after thoroughly considering all the variables.

9.4.12 Drainage

The recommended minimum pavement cross slope of two percent adequately provides for drainage. Sloping in one direction instead of crowning is preferred and usually simplifies the drainage and surface construction. A smooth surface is essential to prevent water ponding and ice formation.

Where a bicycle path is constructed on the side of a hill, a ditch of suitable dimensions should be placed on the uphill side to intercept the hillside drainage. Such ditches should be designed in such a way that no undue obstacles are presented to cyclists. Where necessary, catch basins with drains should be provided to carry the intercepted water under the path. Drainage grates and manhole covers should be located outside of the travel path of the cyclist. (See Section 1003.6 of the Caltrans *Highway Design Manual*.) To assist in draining the area adjacent to the bicycle path, the design should include considerations for preserving the natural ground cover. Seeding, mulching and sodding of adjacent slopes, swales and other erosion-prone areas should be included in the design plans.

9.4.13 Lighting

Lighting is encouraged for both guidance and safety reasons and should be considered along Class 1 paths especially if heavy use is expected in the evening hours. Applicable situations include bicycle paths serving colleges or employment centers, as well as at highway intersections. Lighting should also be considered through underpasses or tunnels and when nighttime security could be a problem. Fixed-source lighting reduces conflicts along the paths and at intersections. In addition, lighting allows the cyclist to see the bicycle path direction, surface conditions and obstacles.



Depending on the location, average maintained horizontal illumination levels of 5 to 22 lux should be considered. Light standards (poles) should meet the recommended horizontal and vertical clearances. Luminaires and standards should be at a scale appropriate for a pedestrian or bicycle path. (See Section 1003.6 of the Caltrans *Highway Design Manual*.)

9.4.14 Barriers to Motor Vehicle Traffic

Bicycle paths often need some type of physical barrier at highway intersections and pedestrian-load bridges to prevent unauthorized motor vehicles from using the facilities. Provisions can be made for a lockable, removable post to permit entrance by authorized vehicles. The post should be permanently reflectorized for nighttime visibility and painted a bright color for improved daytime visibility. When more than one post is used, a five foot spacing is desirable. Wider spacing can allow entry to motor vehicles, while narrower spacing might prevent entry by adult tricycles and bicycles with trailers. Striping an envelope around the barrier is recommended. (See Section 1003.1 of the Caltrans *Highway Design Manual*.)

An alternate method of restricting entry of motor vehicles is to split the entryway into two five-foot sections separated by low landscaping. Emergency vehicles can still enter if necessary by straddling the landscape. The maintenance costs associated with landscaping should be acknowledged, however, before this alternative method is selected.

9.5 Unpaved Multi-Use Facilities

In some cases, unpaved trails or roads may be used as part of a bikeway system. Though not eligible for official designation as bicycle facilities, they can be acknowledged as “informal” unpaved connections between official paved segments. Because these routes are generally in less developed areas, they may also be considered scenic unpaved “byways” that can be accessed via the official bikeway system.

Many of the bicycles sold are mountain bikes designed for use on unpaved surfaces and come equipped with wide tires and low gearing. Many recreational cyclists ride this type of bicycle and may use them on a well maintained unpaved route. Unpaved routes are unlikely to attract many commuting cyclists, but the routes may experience some utility use if they provide convenient shortcuts between popular destinations where such routes would not otherwise exist.

Available guidelines for unpaved facilities are limited. In general, the coefficient of friction used in calculating curve radii and a factor in determining design speed, should be reduced. Although there are not data available for unpaved surfaces, it is suggested that friction factors be reduced by 50 percent to allow a sufficient margin of safety. This reduction in friction affects all situations where traction is important, especially on grades. Grades steeper than three percent may not be practical for bicycle paths with crushed stone surfaces.

In cases where switchbacks are necessary for unpaved paths that occur in steep terrain, curve radii may be enlarged, the path widened and runout areas provided. In areas of erosive soils, it is also advisable to install signage suggesting cyclists dismount when traversing the switchbacks.

9.6 Class 2 Facilities

Class 2 facilities are marked bicycle lanes within roadways usually adjacent to the curb lane, delineated by appropriate striping and signage.

Bicycle lanes can be considered when it is desirable to delineate available road space for preferential use by cyclists and motorists and to provide for more predictable movements by each. Bicycle lane markings can increase a cyclist’s confidence in motorists not straying into his/her path of travel. Likewise, passing motorists are less likely to swerve to the left out of their lane to avoid cyclists on their right.





Bicycle lanes should always be one-way facilities and carry traffic in the same direction as adjacent motor vehicle traffic. Two-way bicycle lanes on one side of the roadway are unacceptable because they promote riding against the flow of motor vehicle traffic. Wrong-way riding is the primary cause of bicycle crashes and violates the “Rules of the Road” stated in the Uniform Vehicle Code. Bicycle lanes on one-way streets should be on the right side of the street, except in areas where a bicycle lane on the left will decrease the number of conflicts (e.g., those caused by heavy bus traffic). In unique situations, it may be appropriate to provide a contra-flow bicycle lane on the left side of a one-way street. Where this occurs, the lane should be marked with a solid, double yellow line and the width of the lane should be increased by one foot.

9.6.1 Lane Widths

Under ideal conditions, the minimum bicycle lane width is five feet. However, certain edge conditions dictate additional desirable bicycle lane width. Figure 1003.2A from the Caltrans Highway Design Manual, on the following page, depicts four common dimensions for such facilities and their relations to the roadway.

The first configuration depicts bicycle lanes on an urban curbed street where a striped parking lane is provided. The minimum bicycle lane width for this location is five feet. If parking volume is substantial or turnover is high, an additional one or two feet of width is desirable for safe bicycle operation. Bicycle lanes should always be placed between the parking lane and the motor vehicle lanes. Bicycle lanes between the curb and the parking lane can create obstacles for cyclists and eliminate a cyclist’s ability to avoid a car door as it is opened. Therefore, this placement should not be considered.

The second configuration depicts an urban curbed street where parking is allowed, but without striping for a separate bike lane. This parking lane shared with bicycles should be 11 to 12 feet wide. 13 feet is recommended where parking turnover is high, such as commercial districts. Cyclists do not generally ride near a curb because of the possibility of debris, of hitting a pedal on the curb, of an uneven longitudinal joint, or of a steeper cross slope.

The third configuration of Figure 1003.2A shows a roadway where parking is prohibited. Bicycle lanes in this location should have a minimum width of five feet where a curb occurs (measured from the curb face) and four feet where no curb is used. If the longitudinal joint between the gutter pan and the roadway surface is uneven and falls within five feet of the curb face, a minimum of four feet should be provided between the joint and the motor vehicle lanes.

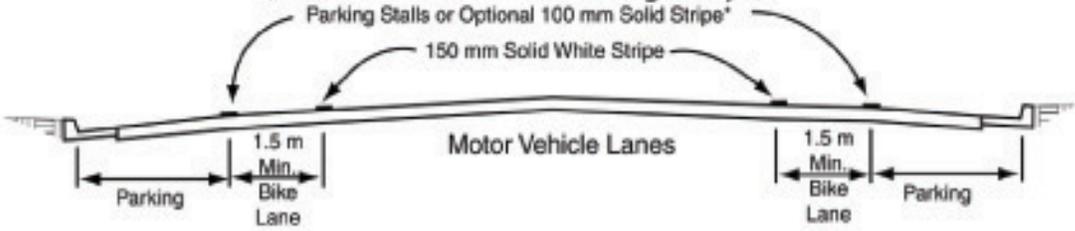
The fourth configuration of Figure 1003.2A depicts bicycle lanes on a roadway where parking is prohibited and without curbs. Bicycle lanes should be located between the motor vehicle lanes and the roadway shoulders. In this situation, bicycle lanes may have a minimum width of four feet, since the shoulder can provide additional maneuvering width. A width of five feet or greater is preferable. Additional widths are desirable where substantial truck traffic is present, or where vehicle speeds exceed 40 m.p.h. In certain situations, it may be appropriate to designate the full shoulder as the bike lane.

9.6.2 Intersections

Bicycle lanes tend to complicate both bicycle and motor vehicle turning movements at intersections. Because they encourage cyclists to keep to the right and motorists to keep to the left, both operators are somewhat discouraged from merging in advance of turns. Because of this, some cyclists will begin left turns from the right side of the bicycle lane and some motorists will begin right turns from the left side of the bicycle lane. Both maneuvers are contrary to established “Rules of the Road” and result in conflicts.

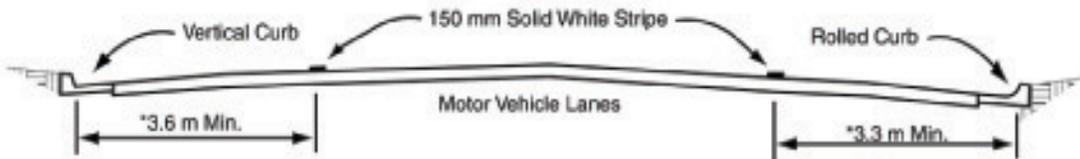


Figure 1003.2A
Typical Bike Lane Cross Sections
(On 2-lane or Multilane Highways)



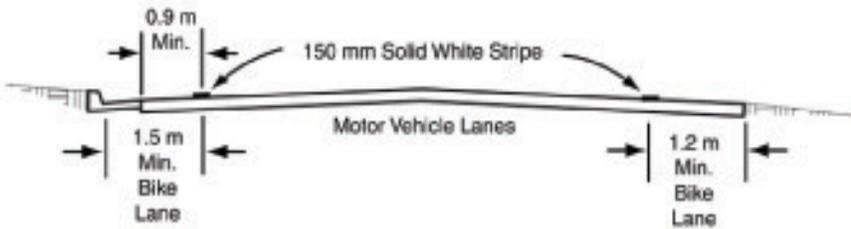
*The optional solid white stripe may be advisable where stalls are unnecessary (because parking is light) but there is concern that motorists may misconstrue the bike lane to be a traffic lane.

(1) STRIPED PARKING



* 3.9 is recommended where there is substantial parking or turnover of parked cars is high (e.g. commercial areas).

(2) PARKING PERMITTED WITHOUT PARKING STRIPE OR STALL



(3) PARKING PROHIBITED



(4) TYPICAL ROADWAY IN OUTLYING AREAS PARKING RESTRICTED





Design treatment for bicycle lanes at a simple intersection is shown in Figure 1003.2B of the Caltrans *Highway Design Manual*. On a two-lane roadway, the edge line along the bike lane should end approximately 200 feet from the intersection to allow left turning cyclists and right turning motorists to “weave” as needed to safely complete their turns.

Design treatment at multi-lane intersections is more complex. Figure 1003.2C of the Caltrans *Highway Design Manual* presents examples of pavement markings for bicycle lanes approaching motorist right-turn-only lanes. Where there is numerous left turning cyclists, a separate turning lane should be considered.

The design of bicycle lanes should also include appropriate signing at intersections to reduce the number of conflicts. General guidance for pavement marking of bicycle lanes is contained in Section 1003.2 of the Caltrans *Highway Design Manual*. (See the Caltrans *Traffic Manual* for additional information.)

9.6.3 Signing and Striping Requirements

Signing and striping should be in accordance with Section 1004 of the Caltrans *Highway Design Manual* and the Caltrans *Traffic Manual*. Bicycle lanes should be well marked and signed to ensure clear understanding of the presence and purpose of the facility by both cyclists and motorists. The Caltrans *Traffic Manual* also specifies standard signing for bicycle lanes. The appropriate signs should be used in advance of the beginning of a marked designated bicycle lane to call attention to the lane and to the possible presence of cyclists. Signs should be used only in conjunction with the appropriate pavement marking and erected at periodic intervals along the designated bicycle lane and in the vicinity of locations where the preferential lane symbol is used.

Where it is necessary to restrict parking, standing, or stopping in a designated bicycle lane, appropriate signs, as described in the Caltrans *Traffic Manual*, may be used. For example, some cities employ a combination “NO PARKING/BIKE LANE” sign, especially where frequent stopping is a problem.

Bicycle lane stripes should be solid, six to eight inch wide white lines. Care should be taken to use skid-resistant pavement striping. Thermoplastic tape and painted markings can become slippery and cause the cyclist to fall. Impregnated grit, nonskid, preformed tape is an acceptable striping material.

It is very important to reapply bicycle lane markings when they begin to fade, since faded bicycle lane markings can lead to confusion for motorists and cyclists. If necessary, reapplication of bicycle lane stripes should be placed on a more frequent schedule than regular roadway re-striping projects. Old markings should be removed prior to re-striping if new layers of marking materials would otherwise create raised areas that would be hazardous to cyclists.

Prompt replacement of bicycle lane striping following pavement repairs should be the responsibility of the paving contractor for projects that have required the removal and replacement of bike lane paving. Too often, lane striping is not replaced following construction or repaving projects.

Preferential bicycle lane symbols should be installed on the pavement in bicycle lanes. Symbols should be installed at regular intervals (no more that 350 feet between symbols), immediately after intersections and at areas where bicycle lanes begin. Pavement letters that spell “BIKE ONLY,” and arrows are optional, but desirable. (See Figure 1004.4 of the Caltrans *Highway Design Manual*.)



9.6.4 Miscellaneous Bikeway Criteria

In addition to adequate pavement surface and traffic signals responsive to bicycles, bicycle-safe grate inlets and safe railroad crossings should always be provided on roadways where bicycle lanes are being designated.

Bicycle-safe Grate Inlets

Drainage inlet grates should be maintained flush with the surface. Drainage inlet grates on bikeways openings must be narrow enough and short enough to prevent bicycle tires from dropping into the grates, regardless of the direction of bicycle travel. The Caltrans *Highway Design Manual* states; “Where it is not immediately feasible to replace existing grates with standard grates designed for bicycles...steel cross straps should be welded to the grates ...to reduce the size of the openings.”

Grates with slots parallel to expected bicycle travel only should never be used. Most bicycle-safe grate inlets currently in use have vertical slats perpendicular to the roadway spaced roughly two inches apart. Some safe designs have more widely spaced slats angled to improve hydraulic flow. Other effective grate designs employ honeycomb or herringbone hole patterns, including a design approved by Caltrans.

Curb-face inlets take the water into a hole in the curb and have no slots on the road surface. While curb-face inlets offer an excellent solution, removing the grate entirely, they can cause handling problems for bikes if the roadway slopes excessively toward the inlet.

Safe Rail Crossings

Safe rail crossings eliminate the gaps along the rails with flangeway fillers and are aligned so that cyclists are directed to cross the tracks at a perpendicular angle to avoid slipping on the smooth metal that can occur when crossing at an oblique angle. (See Section 1003.6 of the Caltrans *Highway Design Manual*.)

Raised Pavement Markings and Barriers

Raised pavement markings and raised barriers can cause steering difficulties for cyclists and should not be used to delineate bicycle lanes.

9.7 Class 3 Facilities

A Class 3 facility is a suggested bicycle route that usually consists of a series of signs designating a preferred route between destinations such as residential and shopping areas. A network of such routes can provide access to a number of destinations throughout the community. In some cases, looped systems of scenic routes have been created to provide users with a series of recreational experiences. In addition, such routes can provide relatively safe connections for commuting to workplaces or schools.

The designation of a roadway as a Class 3 facility should be based primarily on the advisability of encouraging bicycle use on that particular roadway. While the roadways chosen for bicycle routes may not be free of problems, they should offer the best balance of safety and convenience of the available alternatives. In general, the most important considerations are pavement width and geometrics, traffic conditions and appropriateness of the intended purpose. A certain amount of risk and liability exists for any area that is signed as a Class 3 route. The message to the user public is that the facility is a safe route. Therefore, routes should not be placed on streets that do not meet appropriate safety standards.

Attributes that describe how appropriate a particular road is for a bicycle route include directness, connectivity with other bicycle facilities, scenery and available services. Directness is important for cyclists traveling for a purpose, such as commuting, though this is not the case for recreational riders, for whom scenery may be the primary factor in selecting a route. For recreational riders traveling more than a few miles, services such as food, water, restrooms and pressurized air may be of interest.





9.7.1 Roadway Engineering

While design of all Class 1 and 2 bikeways should follow the Bikeway Planning and Design Chapter 1000 of Caltrans' *Highway Design and Traffic Manuals*, there are bound to be situations where the recommended geometrics for a Class 3 facility can not be achieved, such as due to right-of-way constraints, for example. Planning and design of the Class 3 facility should emphasize safety for cyclists and provide additional warnings to motorists to be aware of the presence of cyclists.





Appendices

Appendix A: Agency Publications

Assembly Concurrent Resolution Number 211

On May 16, 2002 (the official California Bike-to-Work Day), Assembly Member Joe Nation (D-San Rafael) introduced Assembly Concurrent Resolution Number 211, relative to integrating walking and biking into transportation infrastructure. This advisory measure encourages all cities and counties to implement the policies of the California Department of Transportation Deputy Directive 64 and the United States Department of Transportation's design guidance document on integrating bicycling and walking when building their transportation infrastructure. The text of the resolution is as follows:

WHEREAS, Bicycling and walking contribute to cleaner air; and

WHEREAS, Bicycling and walking provide affordable and healthy transportation options for many of the 10 million Californians who do not possess a driver's license; and

WHEREAS, The State Department of Health Services has declared that more than 40,000 Californians annually die from causes related to physical inactivity; and

WHEREAS, The United States Centers for Disease Control has determined that changes in the community environment to promote physical activity may offer the most practical approach to prevent obesity or reduce its co-morbidities. Automobile trips that can be safely replaced by walking or bicycling offer the first target for increased physical activity in communities; and

WHEREAS, Bicycling and walking contribute to safeguarding our coast from offshore oil drilling and enhance California's energy independence and national security by reducing our reliance upon imported oil; and

WHEREAS, Designing roads for safe and efficient travel by bicyclists and pedestrians saves lives; and

WHEREAS, Bicyclists and pedestrians pay sales taxes which provide for the majority of local transportation spending; and

WHEREAS, Local demand for funding from the Bicycle Transportation Account, the Safe Routes to School, and the Transportation Enhancement Activity Programs far exceeds available moneys; and

WHEREAS, The best use of limited financial resources is to include bicycle and pedestrian elements into roadway projects where feasible; and

WHEREAS, Bicycling and walking reduce traffic congestion in California; and

WHEREAS, In February 2000, the United States Department of Transportation issued a design guidance statement titled, "Accommodating Bicycle and Pedestrian Travel: A Recommended Approach-A United States Department of Transportation Policy Statement on Integrating Bicycling and Walking into Transportation Infrastructure;" and





WHEREAS, In March 2001, the California Department of Transportation issued Deputy Directive 64 titled "Accommodating Non-Motorized Travel" which states that "The Department fully considers the needs of non-motorized travelers (including pedestrians, bicyclists and persons with disabilities) in all programming, planning maintenance, construction, operations, and project development activities and products. This includes incorporation of the best available standards in all of the Department's practices. The Department adopts the best practices concepts in the US DOT Policy Statement on Integrating Bicycling And Walking into Transportation Infrastructure;" now, therefore, be it

RESOLVED by the Assembly of the State of California, the Senate thereof concurring, That in order to improve the ability of all Californians who choose to walk or bicycle to do so safely and efficiently, the Legislature of the State of California hereby encourages all cities and counties to implement the policies of the California Department of Transportation Deputy Directive 64 and the United States Department of Transportation's design guidance document on integrating bicycling and walking when building their transportation infrastructure.



California Department of Transportation Deputy Directive Number: DD-64

Title: Accommodating Non-Motorized Travel

Policy

The Department fully considers the needs of non-motorized travelers (including pedestrian bicyclists and persons with disabilities) in all programming, planning, maintenance, construction, operations and project development activities and products. This includes incorporation of the best available standards in all of the Department's practices. The Department adopts the best practice concepts in the U.S. DOT Policy Statement on "Integrating Bicycling and Walking into Transportation Infrastructure."

Definition/Background

The planning and project development process seeks to provide the people of California with a degree of mobility that is in balance with other values. They must ensure that economic, social and environmental effects are fully considered along with technical issues, so that the best interest of the public is served. This includes all users of California's facilities and roadways.

Attention must be given to many issues including, but not limited to, the following:

- Safe and efficient transportation for all users of the transportation system
- Provision of alternatives for non-motorized travel
- Support of the Americans With Disabilities Act (ADA)
- Attainment of community goals and objectives
- Transportation needs of low-mobility, disadvantaged groups
- Support of the state's economic development
- Elimination or minimization of adverse effects on the environment, natural resources, public services, aesthetic features and the community
- Realistic financial estimates
- Cost effectiveness

Individual projects are selected for construction on the basis of overall multimodal system benefits as well as community goals, plans and values. Decisions place emphasis on making different transportation modes work together safely and effectively. Implicit in these objectives is the need to accommodate non-motorized travelers as an important consideration in improving the transportation system.

Responsibilities

Deputy Director, Planning and Modal Programs:

- Ensures that the needs of non-motorized travelers are incorporated into the program element of Transportation Planning and the modal elements of the statewide strategy for mobility.
- Ensures that liaison exists with non-motorized advocates to incorporate non-motorized needs into all program areas including project and system planning.
- Ensures that the needs of the non-motorized travelers are incorporated in personal movement strategies.

Deputy Director, Project Delivery:

- Ensures that projects incorporate best practices for non-motorized travel in the design and construction of capital projects.

Deputy Director, Maintenance and Operations:

- Ensures that the transportation system is maintained and operated in a safe and efficient manner with the recognition that non-motorized travel is a vital element of the transportation system.
- Ensures that the needs of non-motorized travelers are met in maintenance work zones.





District Directors:

- Ensure that best practices for non-motorized travel are included in all district projects and project planning.
- Ensure that best practices for non-motorized travel are implemented in maintenance and travel operations practices.

Chief, Division of Design

- Ensures that project delivery procedures and design guidance include the needs of non-motorized travelers as a regular part of doing business.
- Ensures that all project delivery staff is trained and consider the needs of the non-motorized traveler while developing and designing transportation projects.

Chief, Division of Planning:

- Ensures incorporation of non-motorized travel elements in transportation plans, programs and studies prepared by Transportation Planning.
- Ensures planning staff understand and are trained in the principles and design guidelines, non-motorized funding sources and the planning elements of non-motorized transportation.
- Coordinates Caltrans projects with non-motorized interest groups.
- Ensures incorporation of non-motorized travel elements in Corridor Studies prepared by Transportation Planning.

Chief, Division of Environmental Analysis:

- Ensures that non-motorized travel groups potentially affected by Caltrans projects are identified and have the opportunity to be involved in the project development process.
- Advocates effectively for all reasonable project-specific best practices that support or promote non-motorized travel.

Chief, Division of Maintenance:

- Ensures State-owned facilities are maintained consistent with the needs of motorized and non-motorized travelers.
- Provides guidance and training to those maintaining roadways to be aware of and sensitive to the needs of non-motorized travel.

Chief, Division of Traffic Operations:

- Ensures that the transportation system is operated in accordance with the needs of all travelers including non-motorized travel.
- Provides training and guidance on the operation of the transportation facility consistent with providing mobility for all users.
- Recommends safety measures in consideration of non-motorized travel on California's transportation system.

Chief, Division of Local Assistance:

- Ensures that Local Assistance staff, local agencies and interest groups are familiar with funding programs that are available for non-motorized travelers.
- Ensures that program coordinators responsible for non-motorized travel modes are familiar with non-motorized issues and advocate on behalf of non-motorized travelers.

Applicability

All Caltrans employees who are involved in the planning, design, construction, maintenance and operations of the transportation system.

TONY V. HARRIS
Chief Deputy Director



Design Guidance Accommodating Bicycle and Pedestrian Travel:

A Recommended Approach: A US DOT Policy Statement on Integrating Bicycling and Walking into Transportation Infrastructure

Purpose

Accommodating Bicycle and Pedestrian Travel: A Recommended Approach is a policy statement adopted by the United States Department of Transportation. USDOT hopes that public agencies, professional associations, advocacy groups, and others adopt this approach as a way of committing themselves to integrating bicycling and walking into the transportation mainstream.

The Design Guidance incorporates three key principles:

- a) a policy statement that bicycling and walking facilities will be incorporated into all transportation projects unless exceptional circumstances exist;
- b) an approach to achieving this policy that has already worked in State and local agencies; and
- c) a series of action items that a public agency, professional association, or advocacy group can take to achieve the overriding goal of improving conditions for bicycling and walking.

The Policy Statement was drafted by the U.S. Department of Transportation in response to Section 1202 (b) of the Transportation Equity Act for the 21st Century (TEA-21) with the input and assistance of public agencies, professional associations and advocacy groups.

Introduction

Bicycling and walking issues have grown in significance throughout the 1990s. As the new millennium dawns public agencies and public interest groups alike are striving to define the most appropriate way in which to accommodate the two modes within the overall transportation system so that those who walk or ride bicycles can safely, conveniently, and comfortably access every destination within a community.

Public support and advocacy for improved conditions for bicycling and walking has created a widespread acceptance that more should be done to enhance the safety, comfort, and convenience of the non-motorized traveler. Public opinion surveys throughout the 1990s have demonstrated strong support for increased planning, funding and implementation of shared use paths, sidewalks and on-street facilities.

At the same time, public agencies have become considerably better equipped to respond to this demand. Research and practical experience in designing facilities for bicyclists and pedestrians has generated numerous national, state and local design manuals and resources. An increasing number of professional planners and engineers are familiar with this material and are applying this knowledge in towns and cities across the country.

The 1990 Americans with Disabilities Act, building on an earlier law requiring curb ramps in new, altered, and existing sidewalks, added impetus to improving conditions for sidewalk users. People with disabilities rely on the pedestrian and transit infrastructure, and the links between them, for access and mobility.

Congress and many State legislatures have made it considerably easier in recent years to fund non-motorized projects and programs (for example, the Intermodal Surface Transportation Efficiency Act and the Transportation Equity Act for the 21st Century), and a number of laws and regulations now mandate certain planning activities and design standards to guarantee the inclusion of bicyclists and pedestrians.

Despite these many advances, injury and fatality numbers for bicyclists and pedestrians





remain stubbornly high, levels of bicycling and walking remain frustratingly low, and most communities continue to grow in ways that make travel by means other than the private automobile quite challenging. Failure to provide an accessible pedestrian network for people with disabilities often requires the provision of costly paratransit service. Ongoing investment in the Nation's transportation infrastructure is still more likely to overlook rather than integrate bicyclists and pedestrians.

In response to demands from user groups that every transportation project include a bicycle and pedestrian element, Congress asked the Federal Highway Administration (FHWA) to study various approaches to accommodating the two modes. The Transportation Equity Act for the 21st Century (TEA-21) instructs the Secretary to work with professional groups such as AASHTO, ITE, and other interested parties to recommend policies and standards that might achieve the overall goal of fully integrating bicyclists and pedestrians into the transportation system.

TEA-21 also says that, "Bicycle transportation facilities and pedestrian walkways shall be considered, where appropriate, in conjunction with all new construction and reconstruction of transportation projects, except where bicycle and pedestrian use are not permitted." (Section 1202)

Sec. 1202. Bicycle Transportation And Pedestrian Walkways.
(b) Design Guidance.

(1) In general - In implementing section 217(g) of title 23, United States Code, the Secretary, in cooperation with the American Association of State Highway and Transportation Officials, the Institute of Transportation Engineers, and other interested organizations, shall develop guidance on the various approaches to accommodating bicycles and pedestrian travel.

(2) Issues to be addressed - The guidance shall address issues such as the level and nature of the demand, volume, and speed of motor vehicle traffic, safety, terrain, cost, and sight distance.

(3) Recommendations - The guidance shall include recommendations on amending and updating the policies of the American Association of State Highway and Transportation Officials relating to highway and street design standards to accommodate bicyclists and pedestrians.

(4) Time period for development - The guidance shall be developed within 18 months after the date of enactment of this Act.

In August 1998, FHWA convened a Task Force comprising representatives from FHWA, AASHTO, ITE, bicycle and pedestrian user groups, State and local agencies, the U.S. Access Board and representatives of disability organizations to seek advice on how to proceed with developing this guidance. The Task Force reviewed existing and proposed information on the planning and technical design of facilities for bicyclists and pedestrians and concluded that these made creation of another design manual unnecessary. For example, AASHTO published a bicycle design manual in 1999 and is working on a pedestrian facility manual.

The area where information and guidance was most lacking was in determining when to include designated or special facilities for bicyclists and pedestrians in transportation projects. There can also be uncertainty about the type of facility to provide, and the design elements that are required to ensure accessibility.

For example, when a new suburban arterial road is planned and designed, what facilities for bicyclists and pedestrians should be provided? The task force felt that once the decision to provide a particular facility was made, the specific information on designing that facility is generally available. However, the decision on whether to provide sidewalks on neither,



one or both sides of the road, or a shoulder, striped bike lane, wide outside lane or separate trail for bicyclists is usually made with little guidance or help.

After a second meeting with the Task Force in January 1999, FHWA agreed to develop a Policy Statement on Accommodating Bicyclists and Pedestrians in Transportation Projects to guide State and local agencies in answering these questions. Task Force members recommended against trying to create specific warrants for different facilities (warrants leave little room for engineering judgment and have often been used to avoid providing facilities for bicycling and walking). Instead, the purpose of the Policy Statement is to provide a recommended approach to the accommodation of bicyclists and pedestrians that can be adopted by State and local agencies (as well as professional societies and associations, advocacy groups, and Federal agencies) as a commitment to developing a transportation infrastructure that is safe, convenient, accessible, and attractive to motorized AND non-motorized users alike. The Policy Statement has four elements:

- a) An acknowledgment of the issues associated with balancing the competing interests of motorized and non-motorized users;
- b) A recommended policy approach to accommodating bicyclists and pedestrians (including people with disabilities) that can be adopted by an agency or organizations as a statement of policy to be implemented or a target to be reached in the future;
- c) A list of recommended actions that can be taken to implement the solutions and approaches described above; and
- d) Further information and resources on the planning, design, operation, and maintenance of facilities for bicyclists and pedestrians.

The Challenge: Balancing Competing Interests

For most of the second half of the 20th Century, the transportation, traffic engineering and highway professions in the United States were synonymous. They shared a singular purpose: building a transportation system that promoted the safety, convenience and comfort of motor vehicles. The post-war boom in car and home ownership, the growth of suburban America, the challenge of completing the Interstate System, and the continued availability of cheap gasoline all fueled the development of a transportation infrastructure focused almost exclusively on the private motor car and commercial truck.

Initially, there were few constraints on the traffic engineer and highway designer. Starting at the centerline, highways were developed according to the number of motor vehicle travel lanes that were needed well into the future, as well as providing space for breakdowns. Beyond that, facilities for bicyclists and pedestrians, environmental mitigation, accessibility, community preservation, and aesthetics were at best an afterthought, often simply overlooked, and, at worst, rejected as unnecessary, costly, and regressive. Many States passed laws preventing the use of State gas tax funds on anything other than motor vehicle lanes and facilities. The resulting highway environment discourages bicycling and walking and has made the two modes more dangerous. Further, the ability of pedestrians with disabilities to travel independently and safely has been compromised, especially for those with vision impairments.

Over time, the task of designing and building highways has become more complex and challenging. Traffic engineers now have to integrate accessibility, utilities, landscaping, community preservation, wetland mitigation, historic preservation, and a host of other concerns into their plans and designs - and yet they often have less space and resources within which to operate and traffic volumes continue to grow.

The additional “burden” of having to find space for pedestrians and bicyclists was rejected as impossible in many communities because of space and funding constraints and a per-





ceived lack of demand. There was also anxiety about encouraging an activity that many felt to be dangerous and fraught with liability issues. Designers continued to design from the centerline out and often simply ran out of space before bike lanes, paved shoulders, sidewalks and other “amenities” could be included.

By contrast, bicycle and pedestrian user groups argue the roadway designer should design highways from the right-of-way limits in, rather than the centerline out. They advocate beginning the design of a highway with the sidewalk and/or trail, including a buffer before the paved shoulder or bike lane, and then allocating the remaining space for motor vehicles. Through this approach, walking and bicycling are positively encouraged, made safer, and included as a critical element in every transportation project rather than as an afterthought in a handful of unconnected and arbitrary locations within a community.

Retrofitting the built environment often provides even more challenges than building new roads and communities: space is at a premium and there is a perception that providing better conditions for bicyclists and pedestrians will necessarily take away space or convenience from motor vehicles.

During the 1990s, Congress spearheaded a movement towards a transportation system that favors people and goods over motor vehicles with passage of the Intermodal Surface Transportation Efficiency Act (1991) and the Transportation Equity Act for the 21st Century (1998). The call for more walkable, livable, and accessible communities, has seen bicycling and walking emerge as an “indicator species” for the health and well-being of a community. People want to live and work in places where they can safely and conveniently walk and/or bicycle and not always have to deal with worsening traffic congestion, road rage and the fight for a parking space. Vice President Gore launched a Livability Initiative in 1999 with the ironic statement that “a gallon of gas can be used up just driving to get a gallon of milk.”

The challenge for transportation planners, highway engineers and bicycle and pedestrian user groups, therefore, is to balance their competing interest in a limited amount of right-of-way, and to develop a transportation infrastructure that provides access for all, a real choice of modes, and safety in equal measure for each mode of travel.

This task is made more challenging by the widely divergent character of our nation’s highways and byways. Traffic speeds and volumes, topography, land use, the mix of road users, and many other factors mean that a four-lane highway in rural North Carolina cannot be designed in the same way as a four-lane highway in New York City, a dirt road in Utah or an Interstate highway in Southern California. In addition, many different agencies are responsible for the development, management, and operation of the transportation system.

In a recent memorandum transmitting Program Guidance on bicycle and pedestrian issues to FHWA Division Offices, the Federal Highway Administrator wrote, “We expect every transportation agency to make accommodation for bicycling and walking a routine part of their planning, design, construction, operations and maintenance activities.” The Program Guidance itself makes a number of clear statements of intent:

- Congress clearly intends for bicyclists and pedestrians to have safe, convenient access to the transportation system and sees every transportation improvement as an opportunity to enhance the safety and convenience of the two modes.
- “Due consideration” of bicycle and pedestrian needs should include, at a minimum, a presumption that bicyclists and pedestrians will be accommodated in the design of new and improved transportation facilities.
- To varying extents, bicyclists and pedestrians will be present on all highways and transportation facilities where they are permitted and it is clearly the intent of TEA-21 that all new and improved transportation facilities be planned, designed and con-



structured with this fact in mind.

- The decision not to accommodate [bicyclists and pedestrians] should be the exception rather than the rule. There must be exceptional circumstances for denying bicycle and pedestrian access either by prohibition or by designing highways that are incompatible with safe, convenient walking and bicycling.

The Program Guidance defers a suggested definition of what constitutes “exceptional circumstances” until this Policy Statement is completed. However, it does offer interim guidance that includes controlled access highways and projects where the cost of accommodating bicyclists and pedestrians is high in relation to the overall project costs and likely level of use by non-motorized travelers.

Providing access for people with disabilities is a civil rights mandate that is not subject to limitation by project costs, levels of use, or “exceptional circumstances”. While the Americans with Disabilities Act does not require pedestrian facilities in the absence of a pedestrian route, it does require that pedestrian facilities, when newly constructed or altered, be accessible.

Policy Statement

1. Bicycle and pedestrian ways shall be established in new construction and reconstruction projects in all urbanized areas unless one or more of three conditions are met:

- Bicyclists and pedestrians are prohibited by law from using the roadway. In this instance, a greater effort may be necessary to accommodate bicyclists and pedestrians elsewhere within the right of way or within the same transportation corridor.
- The cost of establishing bikeways or walkways would be excessively disproportionate to the need or probable use. Excessively disproportionate is defined as exceeding twenty percent of the cost of the larger transportation project.
- Where scarcity of population or other factors indicate an absence of need. For example, the Portland Pedestrian Guide requires “all construction of new public streets” to include sidewalk improvements on both sides, unless the street is a cul-de-sac with four or fewer dwellings or the street has severe topographic or natural resource constraints.

2. In rural areas, paved shoulders should be included in all new construction and reconstruction projects on roadways used by more than 1,000 vehicles per day, as is currently the case in Wisconsin. Paved shoulders have safety and operational advantages for all road users in addition to providing a place for bicyclists and pedestrians to operate.

Rumble strips are not recommended where shoulders are used by bicyclists unless there is a minimum clear path of four feet in which a bicycle may safely operate.

3. Sidewalks, shared use paths, street crossings (including over- and undercrossings), pedestrian signals, signs, street furniture, transit stops and facilities, and all connecting pathways shall be designed, constructed, operated and maintained so that all pedestrians, including people with disabilities, can travel safely and independently.

4. The design and development of the transportation infrastructure shall improve conditions for bicycling and walking through the following additional steps:

- Planning projects for the long-term. Transportation facilities are long-term investments that remain in place for many years. The design and construction of new facilities that meet the criteria in item 1) above should anticipate likely future demand for bicycling and walking facilities and not preclude the provision of future improvements. For





example, a bridge that is likely to remain in place for 50 years might be built with sufficient width for safe bicycle and pedestrian use in anticipation that facilities will be available at either end of the bridge even if that is not currently the case.

- Addressing the need for bicyclists and pedestrians to cross corridors as well as travel along them. Even where bicyclists and pedestrians may not commonly use a particular travel corridor that is being improved or constructed, they will likely need to be able to cross that corridor safely and conveniently. Therefore, the design of intersections and interchanges shall accommodate bicyclists and pedestrians in a manner that is safe, accessible and convenient.
- Getting exceptions approved at a senior level. Exceptions for the non-inclusion of bikeways and walkways shall be approved by a senior manager and be documented with supporting data that indicates the basis for the decision.
- Designing facilities to the best currently available standards and guidelines. The design of facilities for bicyclists and pedestrians should follow design guidelines and standards that are commonly used, such as the AASHTO Guide for the Development of Bicycle Facilities, AASHTO's A Policy on Geometric Design of Highways and Streets, and the ITE Recommended Practice "Design and Safety of Pedestrian Facilities".

Policy Approach

"Rewrite the Manuals" Approach

Manuals that are commonly used by highway designers covering roadway geometrics, roadside safety, and bridges should incorporate design information that integrates safe and convenient facilities for bicyclists and pedestrians — including people with disabilities - into all new highway construction and reconstruction projects.

In addition to incorporating detailed design information - such as the installation of safe and accessible crossing facilities for pedestrians, or intersections that are safe and convenient for bicyclists - these manuals should also be amended to provide flexibility to the highway designer to develop facilities that are in keeping with transportation needs, accessibility, community values, and aesthetics. For example, the Portland Pedestrian Design Guide (June 1998) applies to every project that is designed and built in the city, but the Guide also notes that:

"Site conditions and circumstances often make applying a specific solution difficult. The Pedestrian Design Guide should reduce the need for ad hoc decision by providing a published set of guidelines that are applicable to most situations. Throughout the guidelines, however, care has been taken to provide flexibility to the designer so she or he can tailor the standards to unique circumstances. Even when the specific guideline cannot be met, the designer should attempt to find the solution that best meets the pedestrian design principles described [on the previous page]"

In the interim, these manuals may be supplemented by stand-alone bicycle and pedestrian facility manuals that provide detailed design information addressing on-street bicycle facilities, fully accessible sidewalks, crosswalks, and shared use paths, and other improvements.

Examples: Florida DOT has integrated bicycle and pedestrian facility design information into its standard highway design manuals and New Jersey DOT is in the process of doing so. Many States and localities have developed their own bicycle and pedestrian facility design manuals, some of which are listed in the final section of this document.

Applying Engineering Judgment to Roadway Design

In rewriting manuals and developing standards for the accommodation of bicyclists and pedestrians, there is a temptation to adopt "typical sections" that are applied to roadways





without regard to travel speeds, lane widths, vehicle mix, adjacent land uses, traffic volumes and other critical factors. This approach can lead to inadequate provision on major roads (e.g. a four foot bike lane or four foot sidewalk on a six lane high-speed urban arterial) and the over-design of local and neighborhood streets (e.g. striping bike lanes on low volume residential roads), and leaves little room for engineering judgment.

After adopting the policy that bicyclists and pedestrians (including people with disabilities) will be fully integrated into the transportation system, State and local governments should encourage engineering judgment in the application of the range of available treatments.

For example:

- Collector and arterial streets shall typically have a minimum of a four foot wide striped bicycle lane, however wider lanes are often necessary in locations with parking, curb and gutter, heavier and/or faster traffic.
- Collector and arterial streets shall typically have a minimum of a five foot sidewalk on both sides of the street, however wider sidewalks and landscaped buffers are necessary in locations with higher pedestrian or traffic volumes, and/or higher vehicle speeds. At intersections, sidewalks may need to be wider to accommodate accessible curb ramps.
- Rural arterials shall typically have a minimum of a four foot paved shoulder; however wider shoulders (or marked bike lanes) and accessible sidewalks and crosswalks are necessary within rural communities and where traffic volumes and speeds increase.

This approach also allows the highway engineer to achieve the performance goal of providing safe, convenient, and comfortable travel for bicyclists and pedestrians by other means. For example, if it would be inappropriate to add width to an existing roadway to stripe a bike lane or widen a sidewalk, traffic calming measures can be employed to reduce motor vehicle speeds to levels more compatible with bicycling and walking.

Actions

The United States Department of Transportation encourages States, local governments, professional associations, other government agencies and community organizations to adopt this Policy Statement as an indication of their commitment to accommodating bicyclists and pedestrians as an integral element of the transportation system. By so doing, the organization or agency should explicitly adopt one, all, or a combination of the various approaches described above AND should be committed to taking some or all of the actions listed below as appropriate for their situation.

- a) Define the exceptional circumstances in which facilities for bicyclists and pedestrians will NOT be required in all transportation projects.
- b) Adopt new manuals, or amend existing manuals, covering the geometric design of streets, the development of roadside safety facilities, and design of bridges and their approaches so that they comprehensively address the development of bicycle and pedestrian facilities as an integral element of the design of all new and reconstructed roadways.
- c) Adopt stand-alone bicycle and pedestrian facility design manuals as an interim step towards the adoption of new typical sections or manuals covering the design of streets and highways.
- d) Initiate an intensive re-tooling and re-education of transportation planners and engineers to make them conversant with the new information required to accommodate bicyclists and pedestrians. Training should be made available for, if not required of, agency traffic engineers and consultants who perform work in this field.





Conclusion

There is no question that conditions for bicycling and walking need to be improved in every community in the United States; it is no longer acceptable that 6,000 bicyclists and pedestrians are killed in traffic every year, that people with disabilities cannot travel without encountering barriers, and that two desirable and efficient modes of travel have been made difficult and uncomfortable.

Every transportation agency has the responsibility and the opportunity to make a difference to the bicycle-friendliness and walkability of our communities. The design information to accommodate bicyclists and pedestrians is available, as is the funding. The United States Department of Transportation is committed to doing all it can to improve conditions for bicycling and walking and to make them safer ways to travel.

Additional Information and Resources

General Design Resources

A Policy on Geometric Design of Highways and Streets, 1994 (The Green Book). American Association of State Highway and Transportation Officials (AASHTO), P.O. Box 96716, Washington, DC, 20090-6716, Phone: (888) 227-4860.

Highway Capacity Manual, Special Report 209, 1994. Transportation Research Board, Box 289, Washington, DC 20055, Phone: (202) 334-3214. Next Edition: FHWA Research Program project has identified changes to HCM related to bicycle and pedestrian design.

Manual on Uniform Traffic Control Devices, 1988. Federal Highway Administration (FHWA), Superintendent of Documents. P.O. Box 371954, Pittsburgh, PA 15250-7954. Next Edition: 2000, will incorporate changes to Part IX that will soon be subject of Notice of Proposed Rulemaking.

Flexibility in Highway Design, 1997. FHWA. HEP 30, 400 Seventh Street SW, Washington, DC 20590.

Pedestrian Facility Design Resources

Design and Safety of Pedestrian Facilities, A Recommended Practice, 1998. Institute of Transportation Engineers, 525 School Street, S.W, Suite 410, Washington, DC 20024-2729, Phone: (202) 554-8050.

Pedestrian Compatible Roadways-Planning and Design Guidelines, 1995. Bicycle / Pedestrian Transportation Master Plan, Bicycle and Pedestrian Advocate, New Jersey Department of Transportation, 1035 Parkway Avenue, Trenton, NJ 08625, Phone: (609) 530-4578.

Improving Pedestrian Access to Transit: An Advocacy Handbook, 1998. Federal Transit Administration / WalkBoston. NTIS, 5285 Port Royal Road, Springfield, VA 22161.

Planning and Implementing Pedestrian Facilities in Suburban and Developing Rural Areas, Report No. 294A, Transportation Research Board, Box 289, Washington, DC 20055, Phone: (202) 334-3214.

Pedestrian Facilities Guidebook, 1997. Washington State Department of Transportation, Bicycle and Pedestrian Program, P.O. Box 47393, Olympia, WA 98504.

Portland Pedestrian Design Guide, 1998. Portland Pedestrian Program, 1120 SW Fifth Ave, Room 802; Portland, OR 97210. (503) 823-7004.

Implementing Pedestrian Improvements at the Local Level, 1999. FHWA, HSR 20, 6300 Georgetown Pike, McLean, VA. (Publication not yet available)



AASHTO Guide to the Development of Pedestrian Facilities, 2000. AASHTO. (Publication not yet available- currently under discussion)

Bikeway Facility Design Resources

Guide for the Development of Bicycle Facilities, 1999., American Association of State Highway and Transportation Officials (AASHTO), P.O. Box 96716, Washington, DC, 20090-6716, Phone: (888) 227-4860.

Implementing Bicycle Improvements at the Local Level, (1998), FHWA, HSR 20, 6300 Georgetown Pike, McLean, VA.

Bicycle Facility Design Standards, 1998. City of Philadelphia Streets Department, 1401 JFK Boulevard, Philadelphia, PA 19103.

Selecting Roadway Design Treatments to Accommodate Bicyclists, 1993. FHWA, R&T Report Center, 9701 Philadelphia Ct., Unit Q; Lanham, MD 20706. (301) 577-1421 (fax only)

North Carolina Bicycle Facilities Planning and Design Guidelines, 1994. North Carolina DOT, P.O. Box 25201, Raleigh, NC 27611. (919) 733-2804.

Bicycle Facility Planning, 1995. Pinsof & Musser. American Planning Association, Planning Advisory Service Report # 459. American Planning Association, 122 S. Michigan Ave, Suite 1600; Chicago, IL 60603.

Florida Bicycle Facilities Planning and Design Manual, 1994. Florida DOT, Pedestrian and Bicycle Safety Office, 605 Suwannee Street, Tallahassee, FL 32399.

Evaluation of Shared-use Facilities for Bicycles and Motor Vehicles, 1996. Florida DOT, Pedestrian and Bicycle Safety Office, 605 Suwannee Street, Tallahassee, FL 32399.

Bicycle and Pedestrian Design Resources

Oregon Bicycle and Pedestrian Plan, 1995. Oregon Department of Transportation, Bicycle and Pedestrian Program, Room 210, Transportation Building, Salem, OR 97310, Phone: (503) 986-3555

Improving Conditions for Bicyclists and Pedestrians, A Best Practices Report, 1998. FHWA, HEP 10, 400 Seventh Street SW, Washington, DC 20590.

Traffic Calming Design Resources

Traffic Calming: State of the Practice. 1999. Institute of Transportation Engineers, 525 School Street, SW, Suite 410; Washington, DC 20024.

Florida Department of Transportation's Roundabout Guide. Florida Department of Transportation, 605 Suwannee St., MS-82, Tallahassee, FL 32399-0450.

National Bicycling and Walking Study. Case Study # 19, Traffic Calming and Auto-Restricted Zones and other Traffic Management Techniques-Their Effects on Bicycling and Pedestrians, Federal Highway Administration (FHWA).

Traffic Calming (1995), American Planning Association, 122 South Michigan Avenue, Chicago, IL 60603

Traditional Neighborhood Development Street Design Guidelines, 1997. Proposed Recommended Practice, Institute of Transportation Engineers, 525 School Street, SW, Suite 410; Washington, DC 20024.

Making Streets that Work, City of Seattle, 600 Fourth Ave., 12th Floor, Seattle, WA 98104-





1873, Phone: (206) 684-4000, Fax: (206) 684-5360.

Traffic Control Manual for In-Street Work, 1994. Seattle Engineering Department, City of Seattle, 600 4th Avenue, Seattle, WA 98104-6967, Phone: (206) 684-5108.

ADA-Related Design Resources

Accessible Pedestrian Signals, 1998. U.S. Access Board 1331 F Street NW, Suite 1000; Washington, DC 20004. (800) 872-2253.

Accessible Rights of Way: A Design Manual, 1999. U.S. Access Board, 1331 F Street NW, Suite 1000; Washington, DC 20004. (800) 872-2253.

Designing Sidewalks and Trails for Access, Part One. 1999. FHWA, HEPH-30, 400 Seventh Street SW, Washington, DC 20590.

ADA Accessibility Guidelines for Buildings and Facilities, 1998 (ADAAG). U.S. Access Board, 1331 F Street NW, Suite 1000; Washington, DC 20004. (800) 872-2253.

Uniform Federal Accessibility Standards, 1984 (UFAS), available from the U.S. Access Board, 1331 F Street NW, Suite 1000; Washington, DC 20004. (800) 872-2253

Universal Access to Outdoor Recreation: A Design Guide, 1993. PLAE, Inc., MIG Communications, 1802 Fifth Street, Berkeley, CA 94710. (510) 845-0953.

Recommended Street Design Guidelines for People Who Are Blind or Visually Impaired. American Council of the Blind, 1155 15th Street NW, Suite 720; Washington, DC 20005. (202) 467-5081.

Trail Design Resources

Trails for the 21st Century, 1993. Rails to Trails Conservancy, 1100 17th Street NW, 10th Floor, Washington DC 20036. (202) 331-9696.

Greenways: A Guide to Planning, Design, and Development, 1993. The Conservation Fund. Island Press, 1718 Connecticut Ave NW, Suite 300; Washington, DC 20009.

Trail Intersection Design Guidelines, 1996. Florida Department of Transportation, 605 Suwannee St., MS-82, Tallahassee, FL 32399-0450.



Appendix B:

Guidelines for Selecting Safe Routes To School

Choosing a safe bicycle route to school is different from choosing a safe walking route because bicyclists and pedestrians have different needs for maximum safety. The higher speed of bicyclists increases the need for visibility, smooth surfaces, and predictable interaction with other road users.

Note also that bicycle skills vary among students more than walking skills do, and they are usually acquired at a later age. Younger children have less skill at estimating closing speed for automobiles and have less ability to process peripheral vision. Younger children should therefore cycle mainly on less complicated streets, where they can focus on one hazard at a time. Older students will cycle faster, and so they need to have longer sight lines. Routes suitable for high schoolers may be unsuitable for elementary school students, and vice versa.

Publishing recommended routes to school is not sufficient for encouraging bicycling to school. Other measures are also needed, including bicycle education, safe bike parking, rewards for cycling (such as bike-to-school days), bike-to-school groups lead by an adult, and so forth.

When choosing safe bicycle routes to school, look for:

- The safest, most direct route. Detours to avoid hazards should not add significantly to the length of the ride, or they will be ignored.
- On-street routes. Children riding on the sidewalk have an increased risk of collision with an automobile 2.5 times over riding on the street. A “bike path” that parallels a road is the same as a sidewalk. Riding a bicycle on sidewalks is prohibited in most jurisdictions in California, at least in business districts.

Use off-street routes only when they have no intersections with streets or driveways, or when they provide a substantial short cut. The faster the cyclists, the more important it is to avoid sidewalks.

Bicyclists should ride on the right side of the street with traffic for maximum safety (wrong way sidewalk riding has the highest risk). When the road is so narrow and so busy that young cyclists cannot ride on it safely, they should walk their bikes on the sidewalk. Generally, this is only feasible to require near intersections with crossing guards.

Where uphill slopes are so steep that the cyclists cannot maintain a straight line (about percent slope equal to age up to 12 years old), students should get off and walk on their bikes on the sidewalk. Similarly steep downgrades require well-maintained brakes and training in braking on hills. Students without that training should walk their bikes down the hills.

- Adequate width of curb lane and good maintenance of road edge. For safe sharing of the curb lane by motorists and cyclists, it should be at least 14 feet wide, with no on-street parking—wider is better, particularly for younger cyclists who cannot hold as straight a line. Broken pavement and accumulated debris on the side of the road can narrow the effective width substantially. If there is a bike lane, its width can be





added to the rightmost travel lane to determine if width is adequate. On very quiet residential roads with low traffic speeds and good sight lines, even young children can safely take a lane, and wide curb lanes are not needed.

Also watch out for drain grates, potholes, obstructed visibility, dogs off-leash, and other obvious hazards. It is best to scout out the routes by bicycle and consult with bicyclists who regularly cycle in the area.

- Right turns, not left turns. It is much easier for a cyclist (particularly a beginning cyclist) to turn right than to turn left. This means that the best route away from school may differ from the best route to school.

There are two ways to do left-turns safely: merging into the left-turn lane or crossing, stopping, turning the bike in place, and crossing again. The merge-left technique can be learned by students as young as 9-10 years old (later for multi-lane streets), but younger students should cross to the far right corner and then cross over to the left.

When left-turns are necessary, it is best if they can be done from low-traffic streets onto low-traffic streets, with all-way stops or traffic signals. T-intersections make left turns even easier, since there are fewer motor vehicle movements to watch out for.

- No right-turn only lanes where cyclists go straight. Right-turn-only lanes require cyclists to merge across a lane of traffic to continue straight. This skill can be learned by middle-school students, but only with proper bicycle instruction.

Where right-turn-only lanes are unavoidable, younger cyclists should probably be directed to walk their bikes on the sidewalk.

- Few stop signs. Stopping requires significant extra effort to regain lost momentum, tempting students to run stop signs illegally. It is safer for them to ride on a slightly busier street with fewer stops and the protection of having the right of way, than to risk running stop signs.
- Only traffic signals that sense bicyclists and give sufficient green time. For a bicyclist to use intersections with traffic signals safely, the traffic signals should detect the bike and make sure there is enough green time for the cyclist to clear the intersection. Traffic signals that do not meet this standard should have their sensors adjusted and be re-timed. Younger children may need to dismount and become pedestrians, using the pedestrian push-button and walking their bikes in the crosswalk.
- Few curb cuts. The turning traffic at commercial driveways is a serious hazard to bicyclists (even more so if they are on the sidewalk).
- Low traffic volume and low speeds. Although this criterion is often the first one people think of, it is actually the least important because most accidents involve turning traffic, not passing traffic. A street with few intersections or curb cuts is safer, even if motor vehicle volume and speed is higher.



Appendix C:

California Bicycle Laws and Safety

The following are important excerpts from the California Vehicle Code (VC) relating to the operation and equipping of bicycles.

VC 231 - Bicycle Defined

Defines bicycle as a device upon which any person may ride, propelled exclusively by human power through a belt, chain, or gears and having one or more wheels. Specifically provides that persons riding bicycles are subject to Vehicle Code provisions specified in Sections 21200 and 21200.5 (see below).

VC 21200 - Bicycle Use

Every person riding a bicycle upon a street or highway has all the rights and is subject to all the duties applicable to the driver of a vehicle, including the provisions of law dealing with driving under the influence of alcoholic beverages or drugs, except those provisions that by their very nature can have no application.

Bicycling Under Influence of Alcohol or Drugs. VC 21200.5

Provides that it is unlawful to ride a bicycle upon a street or highway while under the influence of an alcoholic beverage or drug or the combination of alcohol and a drug, punishable by a fine of up to \$250. A person arrested may request a chemical test. If the person is under 21 but over 13 years of age, his or her driving privilege will be suspended for one year or delayed for one year once the person is eligible to drive.

VC 21201 - Equipment Requirements

a) No person shall operate a bicycle on a roadway unless it is equipped with a brake that will enable the operator to make one braked wheel skid on dry, level, clean pavement.

b) No person shall operate on the highway any bicycle equipped with handlebars so raised that the operator must elevate their hands above the level of their shoulders in order to grasp the normal steering grip area.

c) No person shall operate upon any highway a bicycle that is of such a size as to prevent the operator from safely stopping the bicycle, supporting it in an upright position with at least one foot on the ground, and restarting it in a safe manner.

d) Every bicycle operated upon any highway during darkness shall be equipped with the following:

1. A lamp emitting a white light that illuminates the highway and is visible from a distance of 300 feet to the front and the sides of the bicycle.

2. A red reflector mounted on the rear of the bicycle and visible from 500 feet to the rear of the bicycle.

3. A white or yellow reflector mounted on each pedal visible 200 feet to the front and rear of the bicycle and a white or red reflector on each side to the rear of the center of the bicycle, except bicycles which are equipped with reflectorized tires on the front and the rear need not be equipped with side reflectors. All reflectorized tires must meet DMV requirements.





e) A lamp or lamp combination, emitting a white light, attached to the operator and visible from a distance of 300 feet in front and from the sides of the bicycle, may be used in place of a lamp attached to the bike.

VC 21202 - Duty of Bicycle Operator: Operation On Roadway

a) Any person operating a bicycle upon a roadway at a speed less than the normal speed of traffic moving in the same direction at such time shall ride as close as practicable to the right-hand curb or edge of the roadway except under any of the following situations:

1. When overtaking and passing another bicycle or motor vehicle proceeding in the same direction.
2. When preparing for a left turn at an intersection or into a private road or driveway.
3. When reasonably necessary to avoid conditions (including, but not limited to, fixed or moving objects, vehicles, bicycles, pedestrians, animals, surface hazards, or substandard width lanes) that make it unsafe to continue along the right-hand curb or edge. For purposes of this section, a "substandard width lane" is a lane that is too narrow for a bicycle and a vehicle to travel safely side by side within the lane.

b) Any person operating a bicycle on a one-way street or highway with two or more marked traffic lanes, may ride as near the left-hand curb or edge of such roadway as practicable.

VC 21203 - Hitching Rides

No person riding upon any motorcycle, motorized bicycle, bicycle, coaster, roller skates, sled, or toy vehicle shall attach the same or themselves to any streetcar or vehicle on the roadway.

VC 21204 - Riding On Bicycle

a) No person operating a bicycle on a highway shall ride other than on a permanent and regular attached seat.

b) No person operating a bicycle on a highway shall allow anyone to ride as a passenger other than on a separate attached seat. If the passenger is four years old or younger or weighs 40 pounds or less, the seat shall adequately retain the passenger in place and protect him/her from the bicycle's moving parts.

VC 21205 - Carrying Articles

No person operating a bicycle shall carry any package, bundle, or article which prevents the operator from keeping at least one hand upon the handlebars.

VC 21208 - Permitted Movements from Bicycle Lanes

a) Whenever a bicycle lane has been established on a roadway, any person operating a bicycle upon the roadway at a speed less than the normal speed of traffic moving in the same direction shall ride in the bicycle lane, except under the following situations.

1. When overtaking or passing another bicycle, vehicle, or pedestrian within the lane or about to enter the lane if such overtaking and passing cannot be done safely within the lane.
2. When preparing for a left turn at an intersection or into a private road or driveway.
3. When necessary to leave the lane to avoid debris or other hazardous conditions.

b) No operator of a bicycle shall leave a bicycle lane until it can be done safely and then only after giving an appropriate hand signal in the event that any vehicle might be affected by the movement.



VC 21210 - Parking

No person shall leave a bicycle lying on its side on any sidewalk, or shall park a bicycle on a sidewalk in any other position, so that there is not an adequate path for pedestrian traffic. Local authorities may prohibit bicycle parking in designated areas of the public highway, provided appropriate signs are erected.

VC 21211 - Obstruction of Bikeways

No person shall place or park a bicycle or vehicle so as to impede or block the normal and reasonable movement of any bicyclist on a bikeway or bicycle path or trail unless the placement or parking is necessary for safe operation or otherwise in compliance with the law.

VC 21212 - Youth Helmets

Prohibits persons under 18 from riding or being a passenger on a bicycle without wearing helmets meeting specified standards (ANSI or SNELL). Violations are punishable by a fine of not more than \$25.

VC 21650.1 - Bicycles on Roadways

A bicycle operated on a roadway or highway shoulder shall be operated in the same direction as vehicles are required to drive upon the roadway.

VC 21960 - Bicycling on Freeways

a) The Department of Transportation and local authorities may prohibit or restrict the use of freeways or any portion thereof by bicycles.

b) Such prohibitory regulations shall be effective when appropriate signs giving notice thereof are erected upon the freeway and the approaches thereto.

VC 22111 - Hand Signals

All required signals given by hand and arm shall be given in the following manner:

1. Left turn-hand and arm extended horizontally beyond the side of the bicycle.
2. Right turn- left hand and arm extended upward beyond the side of the bicycle or right hand and arm extended horizontally to the right side of the bicycle.
3. Stop or sudden decrease of speed signal- left hand and arm extended downward beyond the side of the bicycle.

VC 23330 - Toll Crossing

Except where a special permit has been obtained from the Department of Transportation, bicycles shall not be permitted on any vehicular crossing, unless the Department by signs indicates that bicycles are permitted upon all or any portion of the vehicular crossing.

VC 27400 - Headsets and Earplugs

No person operating any vehicle, including a bicycle shall wear any headset covering, or any earplugs in, both ears. There are exceptions for persons operating authorized emergency vehicles, special construction or maintenance equipment and refuse collection equipment, and for any person wearing personal hearing protectors designed to attenuate injurious noise levels and which do not inhibit the wearers' ability to hear a siren or horn from an emergency vehicle or horn from another motor vehicle, and for any person using a prosthetic device which aids the hard of hearing.

VC 39002 - License Requirement

a) A city or county may adopt a bicycle licensing ordinance or resolution providing that no resident shall operate any bicycle on any street, road, highway, or other public property within the city of county, unless such bicycle is licensed in accordance with this division.





b) Any bicycle not licensed under this division may be additionally regulated or licensed pursuant to local ordinance or may be licensed upon request of the owner.

c) It is illegal for any person to tamper with, destroy, mutilate or alter any license indicia (marking) or registration form or to remove, alter, or mutilate the serial number, or the identifying marks of a licensing agency's identifying symbol on any bicycle frame licensed under the provision of this division.

VC 23111 - 23112

Throwing Substances On Highways Or Adjoining Areas.

No person in any vehicle shall throw or discharge from or upon any road, highway or adjoining area, public or private, any lighted or non-lighted cigarette, cigar, match or any flaming or glowing substance.

No person shall throw or deposit upon a highway any bottle, can, glass, wire, nails, paper or any substance likely to injure or cause damage to traffic using the highway.

Note: Some of the sections of the laws listed above have been reworded slightly and/or abbreviated. For exact language, refer to the referenced sections in the California Vehicle Code.

In addition to these state laws, many communities have local ordinances. Check with local police departments regarding bicycle registration, licensing, and regulations (sidewalk riding, etc.).





Appendix D: Caltrans Highway Design Manual Chapter 1000 – Bikeway Planning and Design

The following pages from the Caltrans *Highway Design Manual* are included as a reference for physical design requirements for bikeways in the State of California.





CHAPTER 1000 BIKEWAY PLANNING AND DESIGN

Topic 1001 - General Criteria

Index 1001.1 - Introduction

The needs of non-motorized transportation are an essential part of all highway projects. Topic 105 discusses Pedestrian Facilities with Index 105.3 addressing accessibility needs. This chapter discusses bicycle travel. All city, county, regional and other local agencies responsible for bikeways or roads where bicycle travel is permitted must follow the minimum bicycle planning and design criteria contained in this and other chapters of this manual (See Streets and Highways Code Section 891).

Bicycle travel can be enhanced by improved maintenance and by upgrading existing roads used regularly by bicyclists, regardless of whether or not bikeways are designated. This effort requires increased attention to the right-hand portion of roadways where bicyclists are expected to ride. On new construction, and major reconstruction projects, adequate width should be provided to permit shared use by motorists and bicyclists. On resurfacing projects, it is important to provide a uniform surface for bicyclists and pedestrians. See Index 625.1(1) and 635.1(1) for guidance in accommodating bicyclist and pedestrian needs on resurfacing projects. **When adding lanes or turn pockets, a minimum 4-foot shoulder shall be provided (see Topic 405 and Table 302.1).** When feasible, a wider shoulder should be considered. When placing a roadway edge line, sufficient room outside the line should be provided for bicyclists. When considering the restriping of roadways for more traffic lanes, the impact on bicycle travel should be assessed. Bicycle and pedestrian traffic through construction zones should be addressed in the project development process. These efforts, to preserve or improve an area for use by bicyclists, can enhance motorist and bicyclist safety and mobility.

1001.2 The Role of Bikeways

Bikeways are one element of an effort to improve bicycling safety and convenience - either to help accommodate motor vehicle and bicycle traffic on shared roadways, or to complement the road system to meet needs not adequately met by roads.

Off-street bikeways in exclusive corridors can be effective in providing new recreational opportunities, or in some instances, desirable commuter routes. They can also be used to close gaps where barriers exist to bicycle travel (e.g., river crossing). On-street bikeways can serve to enhance safety and convenience, especially if other commitments are made in conjunction with establishment of bikeways, such as: elimination of parking or increasing roadway width, elimination of surface irregularities and roadway obstacles, frequent street sweeping, establishing intersection priority on the bike route street as compared with the majority of cross streets, and installation of bicycle-sensitive loop detectors at signalized intersections.

1001.3 The Decision to Develop Bikeways

The decision to develop bikeways should be made with the knowledge that bikeways are not the solution to all bicycle-related problems. Many of the common problems are related to improper bicyclist and motorist behavior and can only be corrected through effective education and enforcement programs. The development of well conceived bikeways can have a positive effect on bicyclist and motorist behavior. Conversely, poorly conceived bikeways can be counterproductive to education and enforcement programs.

1001.4 Definitions

The Streets and Highway Code Section 890.4 defines a "Bikeway" as a facility that is provided primarily for bicycle travel.

- (1) Class I Bikeway (Bike Path). Provides a completely separated right of way for the exclusive use of bicycles and pedestrians with crossflow by motorists minimized.
- (2) Class II Bikeway (Bike Lane). Provides a striped lane for one-way bike travel on a street or highway.

- (3) Class III Bikeway (Bike Route). Provides for shared use with pedestrian or motor vehicle traffic.

1001.5 Streets and Highways Code References - Chapter 8 - Nonmotorized Transportation

- (a) Section 887 -- Definition of nonmotorized facility.
- (b) Section 887.6 -- Agreements with local agencies to construct and maintain nonmotorized facilities.
- (c) Section 887.8 -- Payment for construction and maintenance of nonmotorized facilities approximately paralleling State highways.
- (d) Section 888 -- Severance of existing major nonmotorized route by freeway construction.
- (e) Section 888.2 -- Incorporation of nonmotorized facilities in the design of freeways.
- (f) Section 888.4 -- Requires Caltrans to budget not less than \$360,000 annually for nonmotorized facilities used in conjunction with the State highway system.
- (g) Section 890.4 -- Class I, II, and III bikeway definitions.
- (h) Section 890.6 - 890.8 -- Caltrans and local agencies to develop design criteria and symbols for signs, markers, and traffic control devices for bikeways and roadways where bicycle travel is permitted.
- (i) Section 891 -- Local agencies must comply with design criteria and uniform symbols.
- (j) Section 892 -- Use of abandoned right-of-way as a nonmotorized facility.

1001.6 Vehicle Code References - Bicycle Operation

- (a) Section 21200 -- Bicyclist's rights and responsibilities for traveling on highways.
- (b) Section 21202 -- Bicyclist's position on roadways when traveling slower than the normal traffic speed.

- (c) Section 21206 -- Allows local agencies to regulate operation of bicycles on pedestrian or bicycle facilities.
- (d) Section 21207 -- Allows local agencies to establish bike lanes on non-state highways.
- (e) Section 21207.5 -- Prohibits motorized bicycles on bike paths or bike lanes.
- (f) Section 21208 -- Specifies permitted movements by bicyclists from bike lanes.
- (g) Section 21209 -- Specifies permitted movements by motorists in bike lanes.
- (h) Section 21210 -- Prohibits bicycle parking on sidewalks unless pedestrians have an adequate path.
- (i) Section 21211 -- Prohibits impeding or obstruction of bicyclists on bike paths.
- (j) Section 21717 -- Requires a motorist to drive in a bike lane prior to making a turn.
- (k) Section 21960 -- Use of freeways by bicyclists.

Topic 1002 - Bikeway Facilities

1002.1 Selection of the Type of Facility

The type of facility to select in meeting the bicycle need is dependent on many factors, but the following applications are the most common for each type.

- (1) *Shared Roadway (No Bikeway Designation)*. Most bicycle travel in the State now occurs on streets and highways without bikeway designations. This probably will be true in the future as well. In some instances, entire street systems may be fully adequate for safe and efficient bicycle travel, and signing and pavement marking for bicycle use may be unnecessary. In other cases, prior to designation as a bikeway, routes may need improvements for bicycle travel.

Many rural highways are used by touring bicyclists for intercity and recreational travel. It might be inappropriate to designate the highways as bikeways because of the limited use and the lack of continuity with other bike routes. However, the development and

maintenance of 4-foot paved roadway shoulders with a standard 4 inch edge line can significantly improve the safety and convenience for bicyclists and motorists along such routes.

(2) *Class I Bikeway (Bike Path)*. Generally, bike paths should be used to serve corridors not served by streets and highways or where wide right of way exists, permitting such facilities to be constructed away from the influence of parallel streets. Bike paths should offer opportunities not provided by the road system. They can either provide a recreational opportunity, or in some instances, can serve as direct high-speed commute routes if cross flow by motor vehicles and pedestrian conflicts can be minimized. The most common applications are along rivers, ocean fronts, canals, utility right of way, abandoned railroad right of way, within college campuses, or within and between parks. There may also be situations where such facilities can be provided as part of planned developments. Another common application of Class I facilities is to close gaps to bicycle travel caused by construction of freeways or because of the existence of natural barriers (rivers, mountains, etc.).

(3) *Class II Bikeway (Bike Lane)*. Bike lanes are established along streets in corridors where there is significant bicycle demand, and where there are distinct needs that can be served by them. The purpose should be to improve conditions for bicyclists in the corridors. Bike lanes are intended to delineate the right of way assigned to bicyclists and motorists and to provide for more predictable movements by each. But a more important reason for constructing bike lanes is to better accommodate bicyclists through corridors where insufficient room exists for safe bicycling on existing streets. This can be accomplished by reducing the number of lanes, reducing lane width, or prohibiting parking on given streets in order to delineate bike lanes. In addition, other things can be done on bike lane streets to improve the situation for bicyclists, that might not be possible on all streets (e.g., improvements to the surface, augmented sweeping programs, special signal facilities,

etc.). Generally, pavement markings alone will not measurably enhance bicycling.

If bicycle travel is to be controlled by delineation, special efforts should be made to assure that high levels of service are provided with these lanes.

In selecting appropriate streets for bike lanes, location criteria discussed in the next section should be considered.

(4) *Class III Bikeway (Bike Route)*. Bike routes are shared facilities which serve either to:

- (a) Provide continuity to other bicycle facilities (usually Class II bikeways); or
- (b) Designate preferred routes through high demand corridors.

As with bike lanes, designation of bike routes should indicate to bicyclists that there are particular advantages to using these routes as compared with alternative routes. This means that responsible agencies have taken actions to assure that these routes are suitable as shared routes and will be maintained in a manner consistent with the needs of bicyclists. Normally, bike routes are shared with motor vehicles. The use of sidewalks as Class III bikeways is strongly discouraged.

It is emphasized that the designation of bikeways as Class I, II and III should not be construed as a hierarchy of bikeways; that one is better than the other. Each class of bikeway has its appropriate application.

In selecting the proper facility, an overriding concern is to assure that the proposed facility will not encourage or require bicyclists or motorists to operate in a manner that is inconsistent with the rules of the road.

An important consideration in selecting the type of facility is continuity. Alternating segments of Class I and Class II (or Class III) bikeways along a route are generally incompatible, as street crossings by bicyclists are required when the route changes character. Also, wrong-way bicycle travel will occur on the street beyond the ends of bike paths because of the inconvenience of having to cross the street.

Topic 1003 - Design Criteria

1003.1 Class I Bikeways

Class I bikeways (bike paths) are facilities with exclusive right of way, with cross flows by motorists minimized. Section 890.4 of the Streets and Highways Code describes Class I bikeways as serving "the exclusive use of bicycles and pedestrians". However, experience has shown that if significant pedestrian use is anticipated, separate facilities for pedestrians are necessary to minimize conflicts. Dual use by pedestrians and bicycles is undesirable, and the two should be separated wherever possible.

Sidewalk facilities are not considered Class I facilities because they are primarily intended to serve pedestrians, generally cannot meet the design standards for Class I bikeways, and do not minimize motorist cross flows. See Index 1003.3 for discussion relative to sidewalk bikeways.

By State law, motorized bicycles ("mopeds") are prohibited on bike paths unless authorized by ordinance or approval of the agency having jurisdiction over the path. Likewise, all motor vehicles are prohibited from bike paths. These prohibitions can be strengthened by signing.

(1) *Widths.* **The minimum paved width for a two-way bike path shall be 8 feet. The minimum paved width for a one-way bike path shall be 5 feet. A minimum 2-foot wide graded area shall be provided adjacent to the pavement (see Figure 1003.1A).** A 3-foot graded area is recommended to provide clearance from poles, trees, walls, fences, guardrails, or other lateral obstructions. A wider graded area can also serve as a jogging path. Where the paved width is wider than the minimum required, the graded area may be reduced accordingly; however, the graded area is a desirable feature regardless of the paved width. Development of a one-way bike path should be undertaken only after careful consideration due to the problems of enforcing one-way operation and the difficulties in maintaining a path of restricted width.

Where heavy bicycle volumes are anticipated and/or significant pedestrian traffic is expected, the paved width of a two-way path should be

greater than 8-feet, preferably 12 feet or more. Another important factor to consider in determining the appropriate width is that bicyclists will tend to ride side by side on bike paths, necessitating more width for safe use.

Experience has shown that paved paths less than 12 feet wide sometimes break up along the edge as a result of loads from maintenance vehicles.

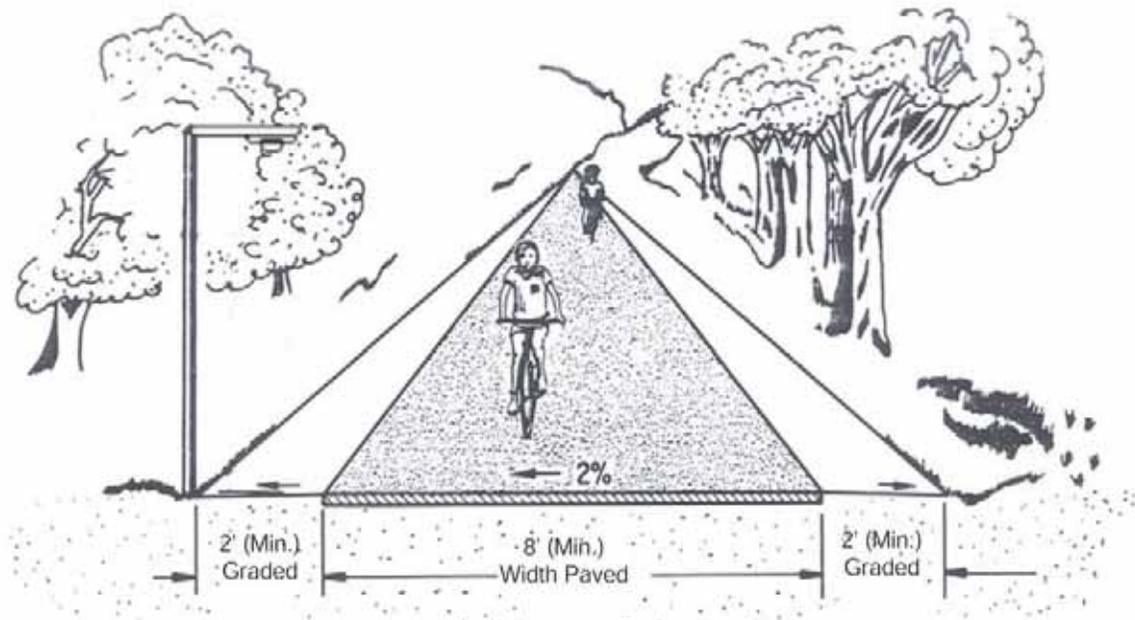
Where equestrians are expected, a separate facility should be provided.

- (2) *Clearance to Obstructions.* **A minimum 2-foot horizontal clearance to obstructions shall be provided adjacent to the pavement (see Figure 1003.1A).** A 3-foot clearance is recommended. Where the paved width is wider than the minimum required, the clearance may be reduced accordingly; however, an adequate clearance is desirable regardless of the paved width. If a wide path is paved contiguous with a continuous fixed object (e.g., block wall), a 4-inch white edge line, 2 feet from the fixed object, is recommended to minimize the likelihood of a bicyclist hitting it. **The clear width on structures between railings shall be not less than 8 feet.** It is desirable that the clear width of structures be equal to the minimum clear width of the path (i.e., 12 feet).

The vertical clearance to obstructions across the clear width of the path shall be a minimum of 8 feet. Where practical, a vertical clearance of 10 feet is desirable.

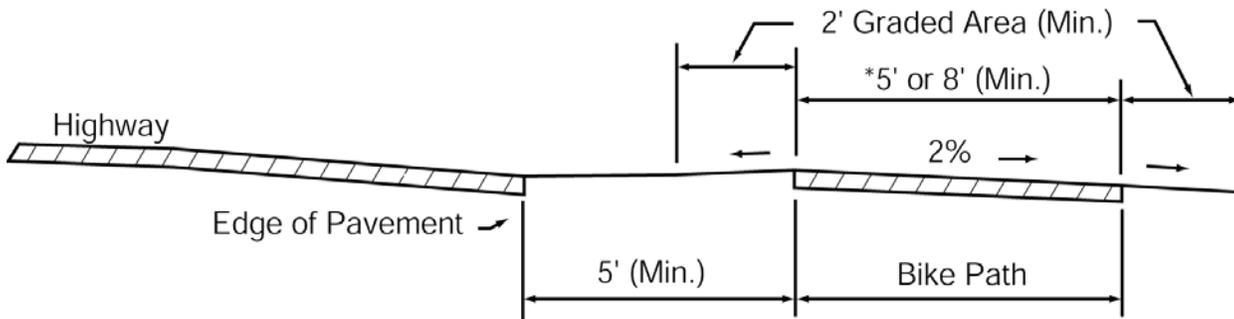
- (3) *Signing and Delineation.* For application and placement of signs, see the Manual on Uniform Traffic Control Devices (MUTCD), Section 9B.01 and the MUTCD and California Supplement Section 9B.01 and Figure 9B-101. For pavement marking guidance, see the MUTCD, Section 9C.03.
- (4) *Intersections with Highways.* Intersections are a prime consideration in bike path design. If alternate locations for a bike path are available, the one with the most favorable intersection conditions should be selected.

Figure 1003.1A

Two-Way Bike Path on Separate Right of Way

Note: For sign clearances, see MUTCD, Figure 9B-1.

Figure 1003.1B
Typical Cross Section of Bike
Path Along Highway



NOTE: See Index 1003.1(5)

*One - Way: 5' Minimum Width
Two - Way: 8' Minimum Width

Where motor vehicle cross traffic and bicycle traffic is heavy, grade separations are desirable to eliminate intersection conflicts. Where grade separations are not feasible, assignment of right of way by traffic signals should be considered. Where traffic is not heavy, stop or yield signs for bicyclists may suffice.

Bicycle path intersections and approaches should be on relatively flat grades. Stopping sight distances at intersections should be checked and adequate warning should be given to permit bicyclists to stop before reaching the intersection, especially on downgrades.

When crossing an arterial street, the crossing should either occur at the pedestrian crossing, where motorists can be expected to stop, or at a location completely out of the influence of any intersection to permit adequate opportunity for bicyclists to see turning vehicles. When crossing at midblock locations, right of way should be assigned by devices such as yield signs, stop signs, or traffic signals which can be activated by bicyclists. Even when crossing within or adjacent to the pedestrian crossing, stop or yield signs for bicyclists should be placed to minimize potential for conflict resulting from turning autos. Where bike path stop or yield signs are visible to approaching motor vehicle traffic, they should be shielded to avoid confusion. In some cases, Bike Xing signs may be placed in advance of the crossing to alert motorists. Ramps should be installed in the curbs, to preserve the utility of the bike path. Ramps should be the same width as the bicycle paths. Curb cuts and ramps should provide a smooth transition between the bicycle paths and the roadway.

- (5) *Separation Between Bike Paths and Highways.* A wide separation is recommended between bike paths and adjacent highways (see Figure 1003.1B). **Bike paths closer than 5 feet from the edge of the shoulder shall include a physical barrier to prevent bicyclists from encroaching onto the highway. Bike paths within the clear recovery zone of freeways shall include a physical barrier separation.** Suitable barriers could include chain link fences or dense shrubs. Low barriers (e.g., dikes, raised traffic bars) next to a highway are not

recommended because bicyclists could fall over them and into oncoming automobile traffic. In instances where there is danger of motorists encroaching into the bike path, a positive barrier (e.g., concrete barrier, steel guardrail) should be provided. See Index 1003.6 for criteria relative to bike paths carried over highway bridges.

Bike paths immediately adjacent to streets and highways are not recommended. They should not be considered a substitute for the street, because many bicyclists will find it less convenient to ride on these types of facilities as compared with the streets, particularly for utility trips.

- (6) *Bike Paths in the Median of Highways.* As a general rule, bike paths in the median of highways are not recommended because they require movements contrary to normal rules of the road. Specific problems with such facilities include:
- (a) Bicyclist right turns from the center of roadways are unnatural for bicyclists and confusing to motorists.
 - (b) Proper bicyclist movements through intersections with signals are unclear.
 - (c) Left-turning motorists must cross one direction of motor vehicle traffic and two directions of bicycle traffic, which increases conflicts.
 - (d) Where intersections are infrequent, bicyclists will enter or exit bike paths at midblock.
 - (e) Where medians are landscaped, visual relationships between bicyclists and motorists at intersections are impaired.

For the above reasons, bike paths in the median of highways should be considered only when the above problems can be avoided. **Bike paths shall not be designed in the medians of freeways or expressways.**

- (7) *Design Speed.* The proper design speed for a bike path is dependent on the expected type of use and on the terrain. **The minimum design speed for bike paths shall be 25 miles per hour except as noted in Table 1003.1.**

Table 1003.1

Bike Path Design Speeds

Type of Facility	Design Speed (mph)
Bike Paths with Mopeds Prohibited	25
Bike Paths with Mopeds Permitted	30
Bike Paths on Long Downgrades (steeper than 4%, and longer than 500')	30

Installation of "speed bumps" or other similar surface obstructions, intended to cause bicyclists to slow down in advance of intersections or other geometric constraints, shall not be used. These devices cannot compensate for improper design.

(8) *Horizontal Alignment and Superelevation.* The minimum radius of curvature negotiable by a bicycle is a function of the superelevation rate of the bicycle path surface, the coefficient of friction between the bicycle tires and the bicycle path surface, and the speed of the bicycle.

For most bicycle path applications the superelevation rate will vary from a minimum of 2 percent (the minimum necessary to encourage adequate drainage) to a maximum of approximately 5 percent (beyond which maneuvering difficulties by slow bicyclists and adult tricyclists might be expected). A straight 2 percent cross slope is recommended on tangent sections. The minimum superelevation rate of 2 percent will be adequate for most conditions and will simplify construction. Superelevation rates steeper than 5 percent should be avoided on bike paths expected to have adult tricycle traffic.

The coefficient of friction depends upon speed; surface type, roughness, and condition; tire type and condition; and whether the surface is wet or dry. Friction factors used for design should be selected based upon the point at which centrifugal force causes the bicyclist to

recognize a feeling of discomfort and instinctively act to avoid higher speed. Extrapolating from values used in highway design, design friction factors for paved bicycle paths can be assumed to vary from 0.31 at 12 miles per hour to 0.21 at 30 miles per hour. Although there is no data available for unpaved surfaces, it is suggested that friction factors be reduced by 50 percent to allow a sufficient margin of safety.

The minimum radius of curvature can be selected from Figure 1003.1C. When curve radii smaller than those shown in Figure 1003.1C must be used on bicycle paths because of right of way, topographical or other considerations, standard curve warning signs and supplemental pavement markings should be installed. The negative effects of nonstandard curves can also be partially offset by widening the pavement through the curves.

(9) *Stopping Sight Distance.* To provide bicyclists with an opportunity to see and react to the unexpected, a bicycle path should be designed with adequate stopping sight distances. The distance required to bring a bicycle to a full controlled stop is a function of the bicyclist's perception and brake reaction time, the initial speed of the bicycle, the coefficient of friction between the tires and the pavement, and the braking ability of the bicycle.

Figures 1003.1D and 1003.1E indicate the minimum stopping sight distances for various design speeds and grades. For two-way bike paths, the descending direction, that is, where "G" is negative, will control the design.

(10) *Length of Crest Vertical Curves.* Figure 1003.1F indicates the minimum lengths of crest vertical curves for varying design speeds.

(11) *Lateral Clearance on Horizontal Curves.* Figure 1003.1G indicates the minimum clearances to line of sight obstructions for horizontal curves. The required lateral clearance is obtained by entering Figure 1003.1G with the stopping sight distance from Figures 1003.1D and 1003.1E, the proposed horizontal curve radius.

Figure 1003.1C**Curve Radii & Superelevations**

$$R = \frac{V^2}{15(0.01e + f)}$$

where,

R = Minimum radius of curvature (ft)

V = Design Speed (mph)

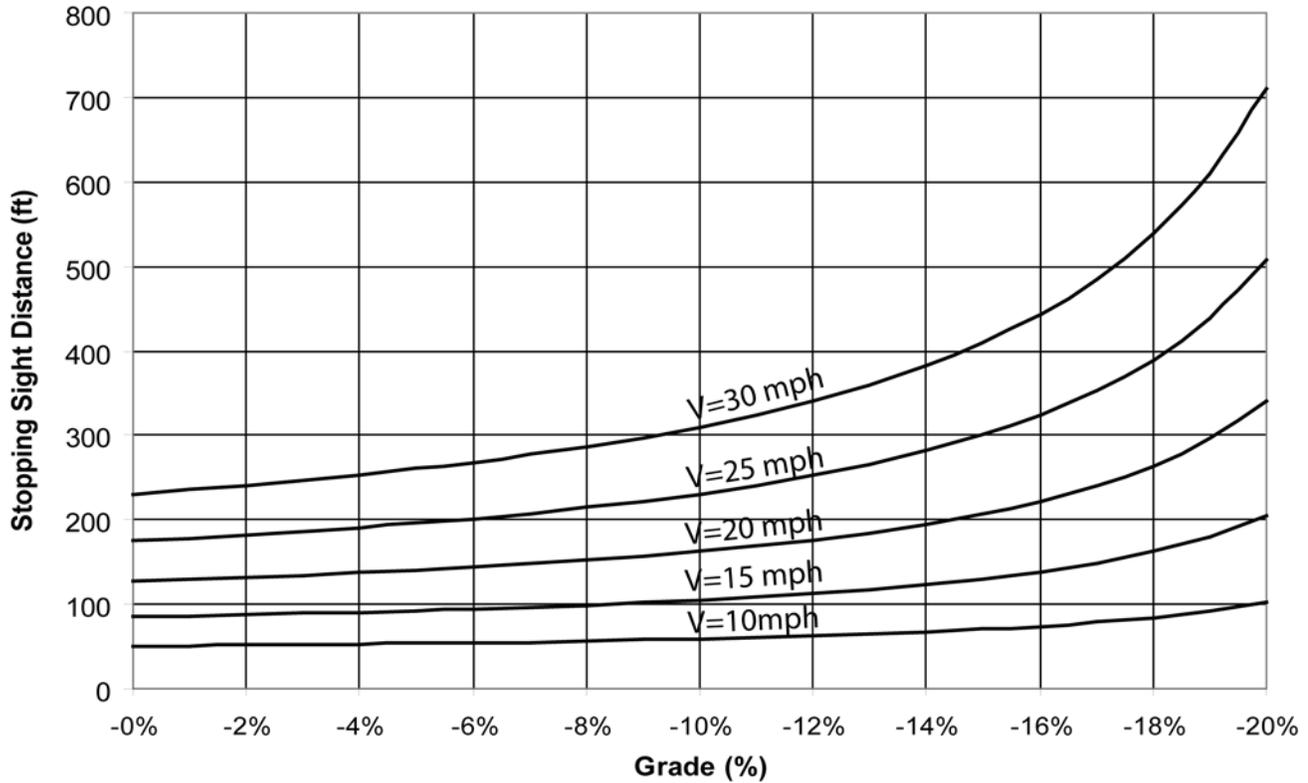
e = Rate of bikeway superelevation, percent

f = Coefficient of friction

Design Speed-V (mph)	Friction Factor-f	Superelevation-e (%)	Minimum Radius-R (ft)
15	0.31	2	46
20	0.28	2	89
25	0.25	2	155
30	0.21	2	261
15	0.31	3	45
20	0.28	3	86
25	0.25	3	149
30	0.21	3	250
15	0.31	4	43
20	0.28	4	84
25	0.25	4	144
30	0.21	4	240
15	0.31	5	42
20	0.28	5	81
25	0.25	5	139
30	0.21	5	231

Figure 1003.1D

Stopping Sight Distance – Descending Grade

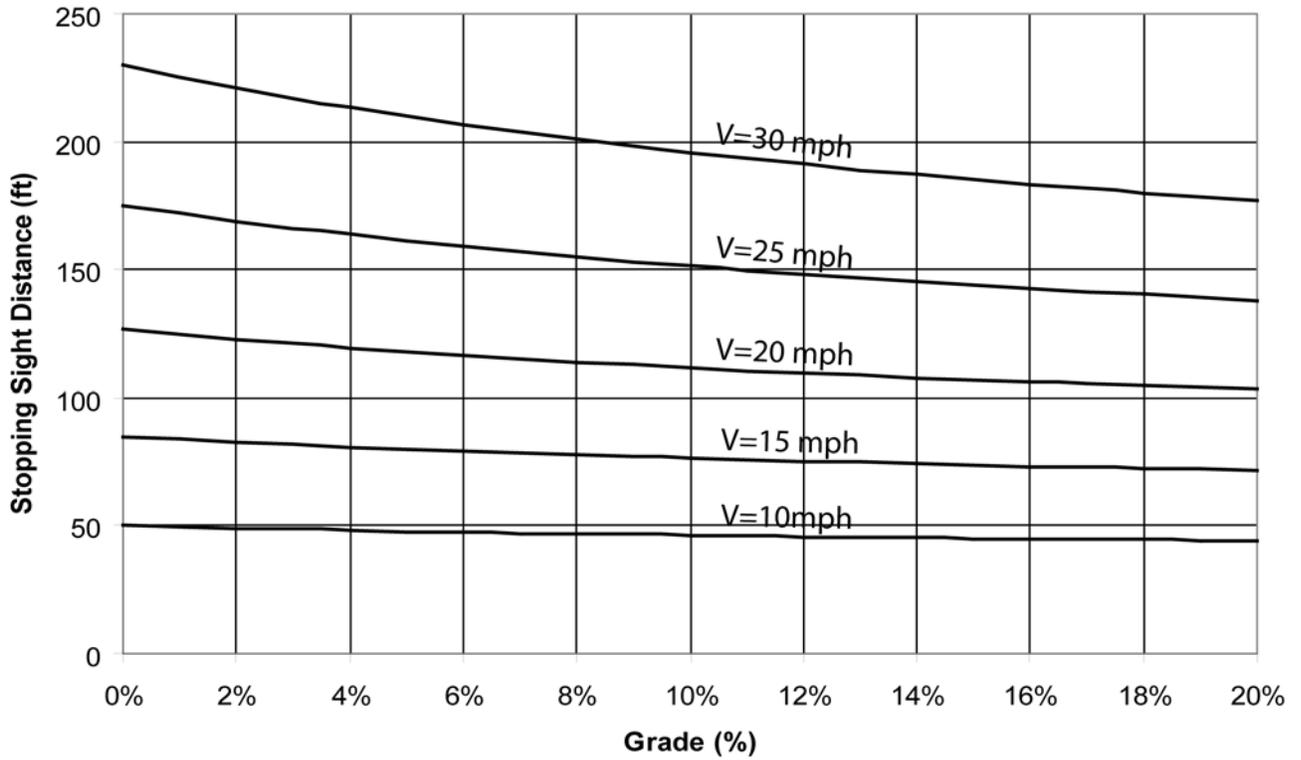


$$S = \frac{V^2}{30(f - G)} + 3.67V$$

- Where : S = Stopping sight distance (ft)
V = Velocity (mph)
f = Coefficient of friction (use 0.25)
G = Grade (ft/ft) rise/run

Figure 1003.1E

Stopping Sight Distance – Ascending Grade



$$S = \frac{V^2}{30(f + G)} + 3.67V$$

Where : S = Stopping sight distance (ft)

V = Velocity (mph)

f = Coefficient of friction (use 0.25)

G = Grade (ft/ft) rise/run

Bicyclists frequently ride abreast of each other on bicycle paths, and on narrow bicycle paths, bicyclists have a tendency to ride near the middle of the path. For these reasons, and because of the serious consequences of a head on bicycle accident, lateral clearances on horizontal curves should be calculated based on the sum of the stopping sight distances for bicyclists traveling in opposite directions around the curve. Where this is not possible or feasible, consideration should be given to widening the path through the curve, installing a yellow center line, installing a curve warning sign, or some combination of these alternatives.

(12) *Grades.* Bike paths generally attract less skilled bicyclists, so it is important to avoid steep grades in their design. Bicyclists not physically conditioned will be unable to negotiate long, steep uphill grades. Since novice bicyclists often ride poorly maintained bicycles, long downgrades can cause problems. For these reasons, bike paths with long, steep grades will generally receive very little use. The maximum grade rate recommended for bike paths is 5 percent. It is desirable that sustained grades be limited to 2 percent if a wide range of riders is to be accommodated. Steeper grades can be tolerated for short segments (e.g., up to about 500 feet). Where steeper grades are necessitated, the design speed should be increased and additional width should be provided for maneuverability.

(13) *Pavement Structure.* The pavement structure of a bike path should be designed in the same manner as a highway, with consideration given to the quality of the basement soil and the anticipated loads the bikeway will experience. It is important to construct and maintain a smooth riding surface with skid resistant qualities. Principal loads will normally be from maintenance and emergency vehicles. Expansive soil should be given special consideration and will probably require a special pavement structure. A minimum pavement thickness of 2 inches of Hot Mix Asphalt (HMA) is recommended. HMA (as described in Department of Transportation Standard Specifications), with ½ inch maximum aggregate and medium grading is recommended. Consideration should be given

to increasing the asphalt content to provide increased pavement life. Consideration should also be given to sterilization of basement soil to preclude possible weed growth through the pavement.

At unpaved highway or driveway crossings of bicycle paths, the highway or driveway should be paved a minimum of 10 feet on each side of the crossing to reduce the amount of gravel being scattered along the path by motor vehicles. The pavement structure at the crossing should be adequate to sustain the expected loading at that location.

(14) *Drainage.* For proper drainage, the surface of a bike path should have a cross slope of 2 percent. Sloping in one direction usually simplifies longitudinal drainage design and surface construction, and accordingly is the preferred practice. Ordinarily, surface drainage from the path will be adequately dissipated as it flows down the gently sloping shoulder. However, when a bike path is constructed on the side of a hill, a drainage ditch of suitable dimensions may be necessary on the uphill side to intercept the hillside drainage. Where necessary, catch basins with drains should be provided to carry intercepted water across the path. Such ditches should be designed in such a way that no undue obstacle is presented to bicyclists.

Culverts or bridges are necessary where a bike path crosses a drainage channel.

(15) *Barrier Posts.* It may be necessary to install barrier posts at entrances to bike paths to prevent motor vehicles from entering. For barrier post placement, visibility marking, and pavement markings, see the MUTCD and California Supplement, Section 9C.101.

Generally, barrier configurations that preclude entry by motorcycles present safety and convenience problems for bicyclists. Such devices should be used only where extreme problems are encountered.

Figure 1003.1F

**Minimum Length of Crest Vertical Curve (L)
Based on Stopping Sight Distance (S)**

$$L = 2S - \frac{1456}{A} \quad \text{when } S > L$$

$$L = \frac{AS^2}{1456} \quad \text{when } S < L$$

Double line represents S = L

L = Minimum length of vertical curve – feet

A = Algebraic grade difference - %

S = Stopping sight distance – feet

Refer to Figure 1003.1D to determine “S”, for a given design speed “V”

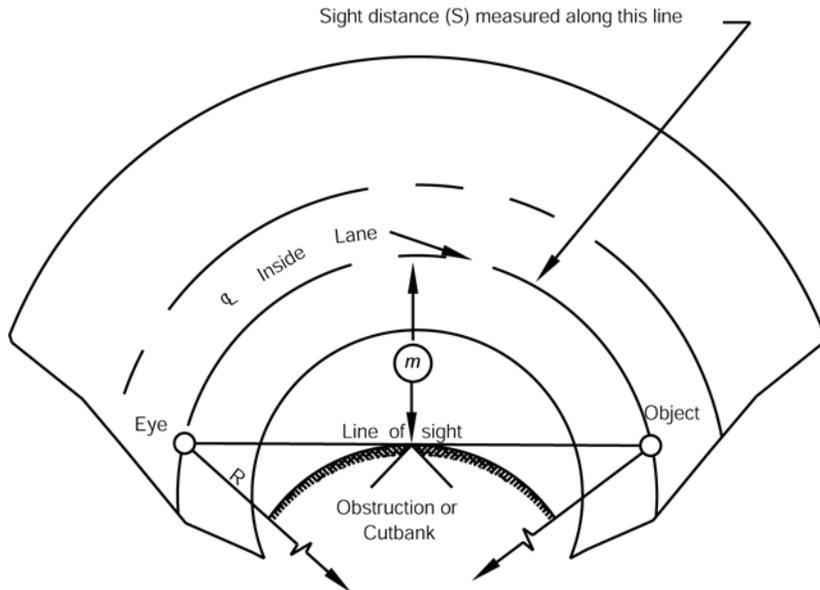
Height of cyclist eye = 4½ feet

Height of object = 4 inches

A (%)	S = Stopping Sight Distance (ft)													
	30	50	70	90	110	130	150	170	190	210	230	250	270	290
3												15	55	95
4									16	56	96	136	176	216
5							9	49	89	129	169	209	249	289
6		S > L				17	57	97	137	177	217	258	300	347
7				12	52	92	132	172	212	254	300	350	404	
8				38	78	118	158	198	242	291	343	401	462	
9			18	58	98	138	179	223	273	327	386	451	520	
10			34	74	114	155	198	248	303	363	429	501	578	
11		8	48	88	128	170	218	273	333	400	472	551	635	
12			19	59	99	139	185	238	298	363	436	515	601	693
13			28	68	108	151	201	258	322	394	472	558	651	751
14			36	76	116	163	216	278	347	424	509	601	701	809
15		3	43	83	125	174	232	298	372	454	545	644	751	866
16		9	49	89	133	186	247	318	397	485	581	687	801	924
17		14	54	95	141	197	263	337	421	515	618	730	851	982
18		19	59	100	150	209	278	357	446	545	654	773	901	1040
19		23	63	106	158	221	294	377	471	575	690	816	951	1097
20		27	67	111	166	232	309	397	496	606	727	859	1001	1155
21		31	71	117	175	244	325	417	521	636	763	901	1051	1213
22		34	74	122	183	255	340	437	545	666	799	944	1102	1271
23		37	77	128	191	267	355	457	570	697	836	987	1152	1329
24		39	81	134	199	279	371	476	595	727	872	1030	1202	1386
25	2	42	84	139	208	290	386	496	620	757	908	1073	1252	1444

S < L

Figure 1003.1G
Minimum Lateral Clearance (*m*) on Horizontal Curves



S = Sight distance in feet.
R = Radius of ℓ of lane in feet.
m = Distance from ℓ of lane in feet.
See Figure 1003.1D to determine "S" for a given design speed "V".

Angle is expressed in degrees

$$m = R \left[1 - \cos \left(\frac{28.65S}{R} \right) \right]$$

$$S = \frac{R}{28.65} \left[\cos^{-1} \left(\frac{R - m}{R} \right) \right]$$

Formula applies only when S is equal to or less than length of curve.

Line of sight is 28" above ℓ inside lane at point of obstruction.

R (ft)	S = Stopping Sight Distance (ft)														
	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300
25	2.0	7.6	15.9												
50	1.0	3.9	8.7	15.2	23.0	31.9	41.5								
75	0.7	2.7	5.9	10.4	16.1	22.8	30.4	38.8	47.8	57.4	67.2				
95	0.5	2.1	4.7	8.3	12.9	18.3	24.7	31.8	39.5	48.0	56.9	66.3	75.9	85.8	
125	0.4	1.6	3.6	6.3	9.9	14.1	19.1	24.7	31.0	37.9	45.4	53.3	61.7	70.6	79.7
155	0.3	1.3	2.9	5.1	8.0	11.5	15.5	20.2	25.4	31.2	37.4	44.2	51.4	59.1	67.1
175	0.3	1.1	2.6	4.6	7.1	10.2	13.8	18.0	22.6	27.8	33.5	39.6	46.1	53.1	60.5
200	0.3	1.0	2.2	4.0	6.2	8.9	12.1	15.8	19.9	24.5	29.5	34.9	40.8	47.0	53.7
225	0.2	0.9	2.0	3.5	5.5	8.0	10.8	14.1	17.8	21.9	26.4	31.3	36.5	42.2	48.2
250	0.2	0.8	1.8	3.2	5.0	7.2	9.7	12.7	16.0	19.7	23.8	28.3	33.1	38.2	43.7
275	0.2	0.7	1.6	2.9	4.5	6.5	8.9	11.6	14.6	18.0	21.7	25.8	30.2	34.9	39.9
300	0.2	0.7	1.5	2.7	4.2	6.0	8.1	10.6	13.4	16.5	19.9	23.7	27.7	32.1	36.7
350	0.1	0.6	1.3	2.3	3.6	5.1	7.0	9.1	11.5	14.2	17.1	20.4	23.9	27.6	31.7
390	0.1	0.5	1.2	2.1	3.2	4.6	6.3	8.2	10.3	12.8	15.4	18.3	21.5	24.9	28.5
500	0.1	0.4	0.9	1.6	2.5	3.6	4.9	6.4	8.1	10.0	12.1	14.3	16.8	19.5	22.3
565		0.4	0.8	1.4	2.2	3.2	4.3	5.7	7.2	8.8	10.7	12.7	14.9	17.3	19.8
600		0.3	0.8	1.3	2.1	3.0	4.1	5.3	6.7	8.3	10.1	12.0	14.0	16.3	18.7
700		0.3	0.6	1.1	1.8	2.6	3.5	4.6	5.8	7.1	8.6	10.3	12.0	14.0	16.0
800		0.3	0.6	1.0	1.6	2.2	3.1	4.0	5.1	6.2	7.6	9.0	10.5	12.2	14.4
900		0.2	0.5	0.9	1.4	2.0	2.7	3.6	4.5	5.6	6.7	8.0	9.4	10.9	12.5
1000		0.2	0.5	0.8	1.3	1.8	2.4	3.2	4.0	5.0	6.0	7.2	8.4	9.8	11.2

(16) *Lighting.* Fixed-source lighting reduces conflicts along paths and at intersections. In addition, lighting allows the bicyclist to see the bicycle path direction, surface conditions, and obstacles. Lighting for bicycle paths is important and should be considered where riding at night is expected, such as bicycle paths serving college students or commuters, and at highway intersections. Lighting should also be considered through underpasses or tunnels, and when nighttime security could be a problem.

Depending on the location, average maintained horizontal illumination levels of 5 lux to 22 lux should be considered. Where special security problems exist, higher illumination levels may be considered. Light standards (poles) should meet the recommended horizontal and vertical clearances. Luminaires and standards should be at a scale appropriate for a pedestrian or bicycle path.

1003.2 Class II Bikeways

Class II bikeways (bike lanes) for preferential use by bicycles are established within the paved area of highways. Bike lane pavement markings are intended to promote an orderly flow of traffic, by establishing specific lines of demarcation between areas reserved for bicycles and lanes to be occupied by motor vehicles. This effect is supported by bike lane signs and pavement markings. Bike lane pavement markings can increase bicyclists' confidence that motorists will not stray into their path of travel if they remain within the bike lane. Likewise, with more certainty as to where bicyclists will be, passing motorists are less apt to swerve toward opposing traffic in making certain they will not hit bicyclists.

Class II bike lanes shall be one-way facilities.

Two-way bike lanes (or bike paths that are contiguous to the roadway) are not permitted, as such facilities have proved unsatisfactory and promote riding against the flow of motor vehicle traffic.

(1) *Widths.* Typical Class II bikeway configurations are illustrated in Figure 1003.2A and are described below:

(a) Figure 1003.2A-(1) depicts bike lanes on an urban type curbed street where parking stalls (or continuous parking stripes) are

marked. Bike lanes are located between the parking area and the traffic lanes. **As indicated, 5 feet shall be the minimum width of bike lane where parking stalls are marked.** If parking volume is substantial or turnover high, an additional 1 foot to 2-foot of width is desirable.

Bike lanes shall not be placed between the parking area and the curb. Such facilities increase the conflict between bicyclists and opening car doors and reduce visibility at intersections. Also, they prevent bicyclists from leaving the bike lane to turn left and cannot be effectively maintained.

(b) Figure 1003.2A-(2) depicts bike lanes on an urban-type curbed street, where parking is permitted, but without parking stripe or stall marking. Bike lanes are established in conjunction with the parking areas. **As indicated, 11 feet or 12 feet (depending on the type of curb) shall be the minimum width of the bike lane where parking is permitted.** This type of lane is satisfactory where parking is not extensive and where turnover of parked cars is infrequent. However, if parking is substantial, turnover of parked cars is high, truck traffic is substantial, or if vehicle speeds exceed 35 miles per hour, additional width is recommended.

(c) Figure 1003.2A-(3) depicts bike lanes along the outer portions of an urban type curbed street, where parking is prohibited. This is generally the most desirable configuration for bike lanes, as it eliminates potential conflicts resulting from auto parking (e.g., opening car doors). **As indicated, if no gutter exists, the minimum bike lane width shall be 4 feet. With a normal 2-foot gutter, the minimum bike lane width shall be 5 feet.** The intent is to provide a minimum 4 feet wide bike lane, but with at least 3 feet between the traffic lane and the longitudinal joint at the concrete gutter, since the gutter reduces the effective width of the bike lane for two reasons. First, the longitudinal joint may not always be smooth, and may be difficult

to ride along. Secondly, the gutter does not provide a suitable surface for bicycle travel. Where gutters are wide (say, 4 feet), an additional 3 feet must be provided because bicyclists should not be expected to ride in the gutter. Wherever possible, the width of bike lanes should be increased 6 feet to 8 feet to provide for greater safety. Eight-foot bike lanes can also serve as emergency parking areas for disabled vehicles.

Striping bike lanes next to curbs where parking is prohibited only during certain hours shall be done only in conjunction with special signing to designate the hours bike lanes are to be effective. Since the Vehicle Code requires bicyclists to ride in bike lanes where provided (except under certain conditions), proper signing is necessary to inform bicyclists that they are required to ride in bike lanes only during the course of the parking prohibition. This type of bike lane should be considered only if the vast majority of bicycle travel would occur during the hours of the parking prohibition, and only if there is a firm commitment to enforce the parking prohibition. Because of the obvious complications, this type of bike lane is not encouraged for general application.

Figure 1003.2A-(4) depicts bike lanes on a highway without curbs and gutters. This location is in an undeveloped area where infrequent parking is handled off the pavement. This can be accomplished by supplementing the bike lane signing with R25 (park off pavement) signs, or R26 (no parking) signs. **Minimum widths shall be as shown.** Additional width is desirable, particularly where motor vehicle speeds exceed 35 miles per hour

Per Topic 301, the minimum lane width standard is 12 feet. There are situations where it may be desirable to reduce the width of the traffic lanes in order to add or widen bicycle lanes or shoulders. In determining the appropriateness of narrower traffic lanes, consideration should be given to factors such as motor vehicle speeds,

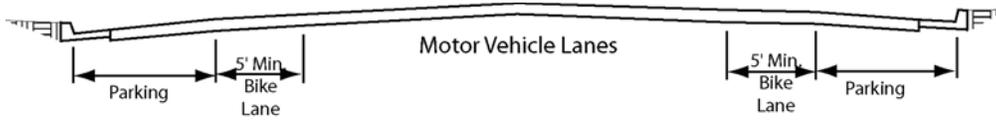
truck volumes, alignment, bicycle lane width, sight distance, and the presence of on-street vehicle parking. When vehicle parking is permitted adjacent to a bicycle lane, or on a shoulder where bicycling is not prohibited, reducing the width of the adjacent traffic lane may allow for wider bicycle lanes or shoulders, to provide greater clearance between bicyclists and driver-side doors when opened. Where favorable conditions exist, traffic lanes of 11 feet may be feasible but must be approved per Topic 301.

Bike lanes are not advisable on long, steep downgrades, where bicycle speeds greater than 30 miles per hour are expected. As grades increase, downhill bicycle speeds will increase, which increases the problem of riding near the edge of the roadway. In such situations, bicycle speeds can approach those of motor vehicles, and experienced bicyclists will generally move into the motor vehicle lanes to increase sight distance and maneuverability. If bike lanes are to be marked, additional width should be provided to accommodate higher bicycle speeds.

If the bike lanes are to be located on one-way streets, they should be placed on the right side of the street. Bike lanes on the left side would cause bicyclists and motorists to undertake crossing maneuvers in making left turns onto a two-way street.

- (2) *Signing and Pavement Markings.* Details for signing and pavement marking of Class II bikeways are found in the MUTCD and California Supplement, Section 9C.04.
- (3) *At-grade Intersection Design.* Most auto/bicycle accidents occur at intersections. For this reason, bikeway design at intersections should be accomplished in a manner that will minimize confusion by motorists and bicyclists, and will permit both to operate in accordance with the normal rules of the road.

**Figure 1003.2A
Typical Bike Lane Cross Sections
(On 2-lane or Multilane Highways)**

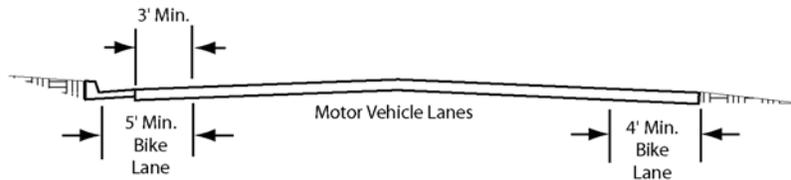


(1) MARKED PARKING



* 13' is recommended where there is substantial parking or turnover of parked cars is high (e.g. commercial areas).

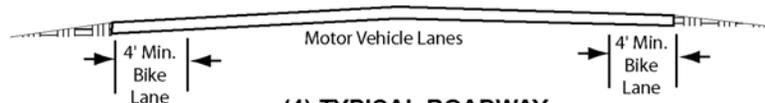
(2) PARKING PERMITTED WITHOUT MARKED PARKING OR STALL



(With Gutter)

(3) PARKING PROHIBITED

(Without Gutter)



(4) TYPICAL ROADWAY IN OUTLYING AREAS PARKING RESTRICTED

Note: For pavement marking guidance, see the MUTCD and California Supplement, Section 9C.04

Figure 1003.2B illustrates a typical at-grade intersection of multilane streets, with bike lanes on all approaches. Some common movements of motor vehicles and bicycles are shown. A prevalent type of accident involves straight-through bicycle traffic and right-turning motorists. Left-turning bicyclists also have problems, as the bike lane is on the right side of the street, and bicyclists have to cross the path of cars traveling in both directions. Some bicyclists are proficient enough to merge across one or more lanes of traffic, to use the inside lane or left-turn lane. However, there are many who do not feel comfortable making this maneuver. They have the option of making a two-legged left turn by riding along a course similar to that followed by pedestrians, as shown in the diagram. Young children will often prefer to dismount and change directions by walking their bike in the crosswalk.

(4) *Interchange Design.* As with bikeway design through at-grade intersections, bikeway design through interchanges should be accomplished in a manner that will minimize confusion by motorists and bicyclists. Designers should work closely with the local agency in designing bicycle facilities through interchanges. Local Agencies should carefully select interchange locations which are most suitable for bikeway designations and where the crossing meets applicable design standards. The local agency may have special needs and desires for continuity through interchanges which should be considered in the design process.

For Class II bikeway signing and lane markings, see the MUTCD and California Supplement, Section 9C.04.

The shoulder width shall not be reduced through the interchange area. The minimum shoulder width shall match the approach roadway shoulder width, but not less than 4 feet or 5 feet if a gutter exists. If the shoulder width is not available, the designated bike lane shall end at the previous local road intersection.

Depending on the intersection angles, either Figure 1003.2C or 1003.2D should also be used

for multilane ramp intersections. Additionally, the outside through lane should be widened to 14 feet when feasible. This allows extra room for bicycles to share the through lane with vehicles. The outside shoulder width should not be reduced through the interchange area to accommodate this additional width.

1003.3 Class III Bikeways

Class III bikeways (bike routes) are intended to provide continuity to the bikeway system. Bike routes are established along through routes not served by Class I or II bikeways, or to connect discontinuous segments of bikeway (normally bike lanes). Class III facilities are shared facilities, either with motor vehicles on the street, or with pedestrians on sidewalks, and in either case bicycle usage is secondary. Class III facilities are established by placing Bike Route signs along roadways.

Minimum widths for Class III bikeways are not presented, as the acceptable width is dependent on many factors, including the volume and character of vehicular traffic on the road, typical speeds, vertical and horizontal alignment, sight distance, and parking conditions.

Since bicyclists are permitted on all highways (except prohibited freeways), the decision to designate the route as a bikeway should be based on the advisability of encouraging bicycle travel on the route and other factors listed below.

- (1) *On-street Bike Route Criteria.* To be of benefit to bicyclists, bike routes should offer a higher degree of service than alternative streets. Routes should be signed only if some of the following apply:
- (a) They provide for through and direct travel in bicycle-demand corridors.
 - (b) Connect discontinuous segments of bike lanes.
 - (c) An effort has been made to adjust traffic control devices (stop signs, signals) to give greater priority to bicyclists, as compared with alternative streets. This could include placement of bicycle-sensitive detectors on the right-hand portion of the road, where bicyclists are expected to ride.

Figure 1003.2B
Typical Bicycle/Auto Movements at
Intersections of Multilane Streets

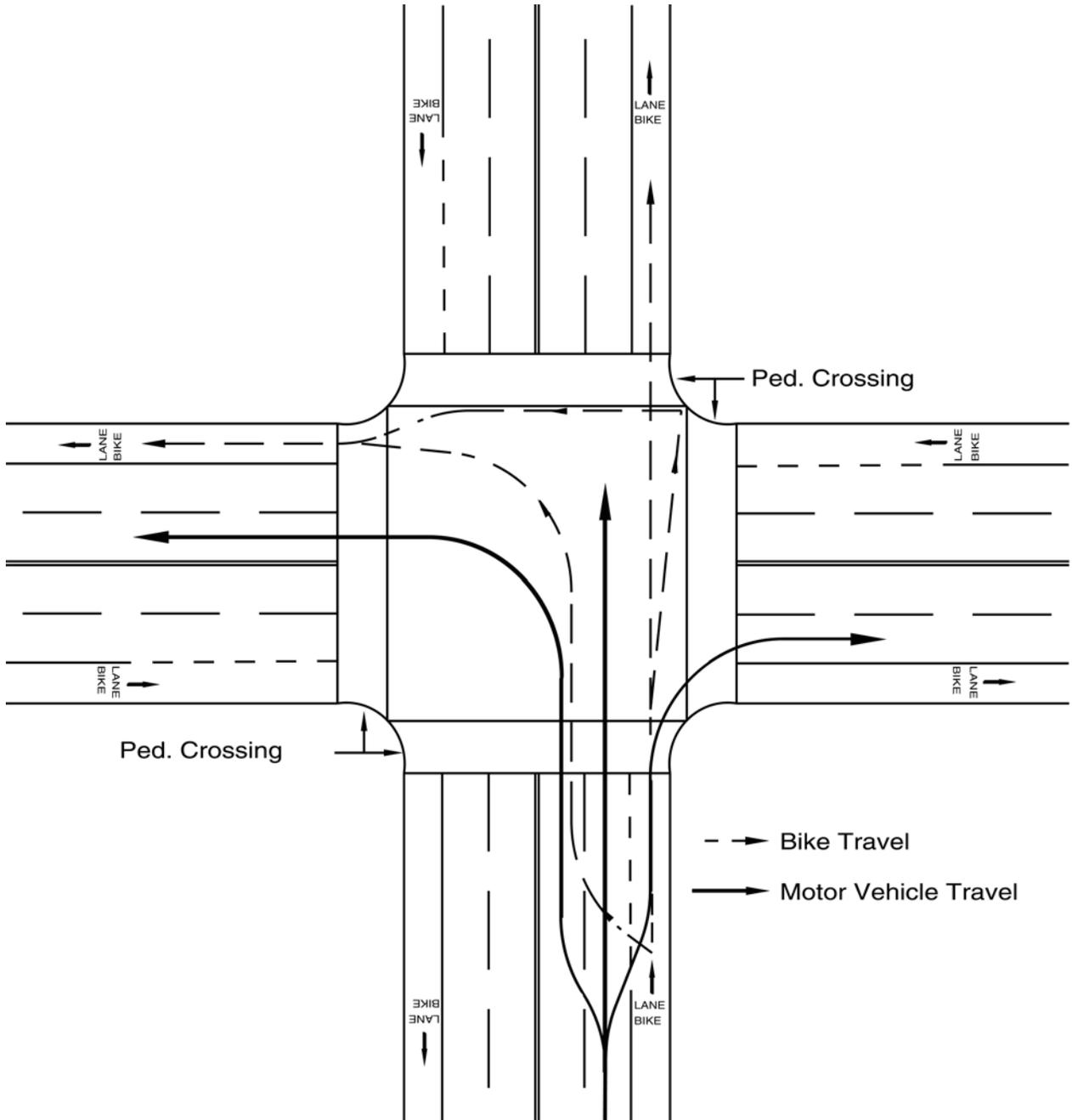
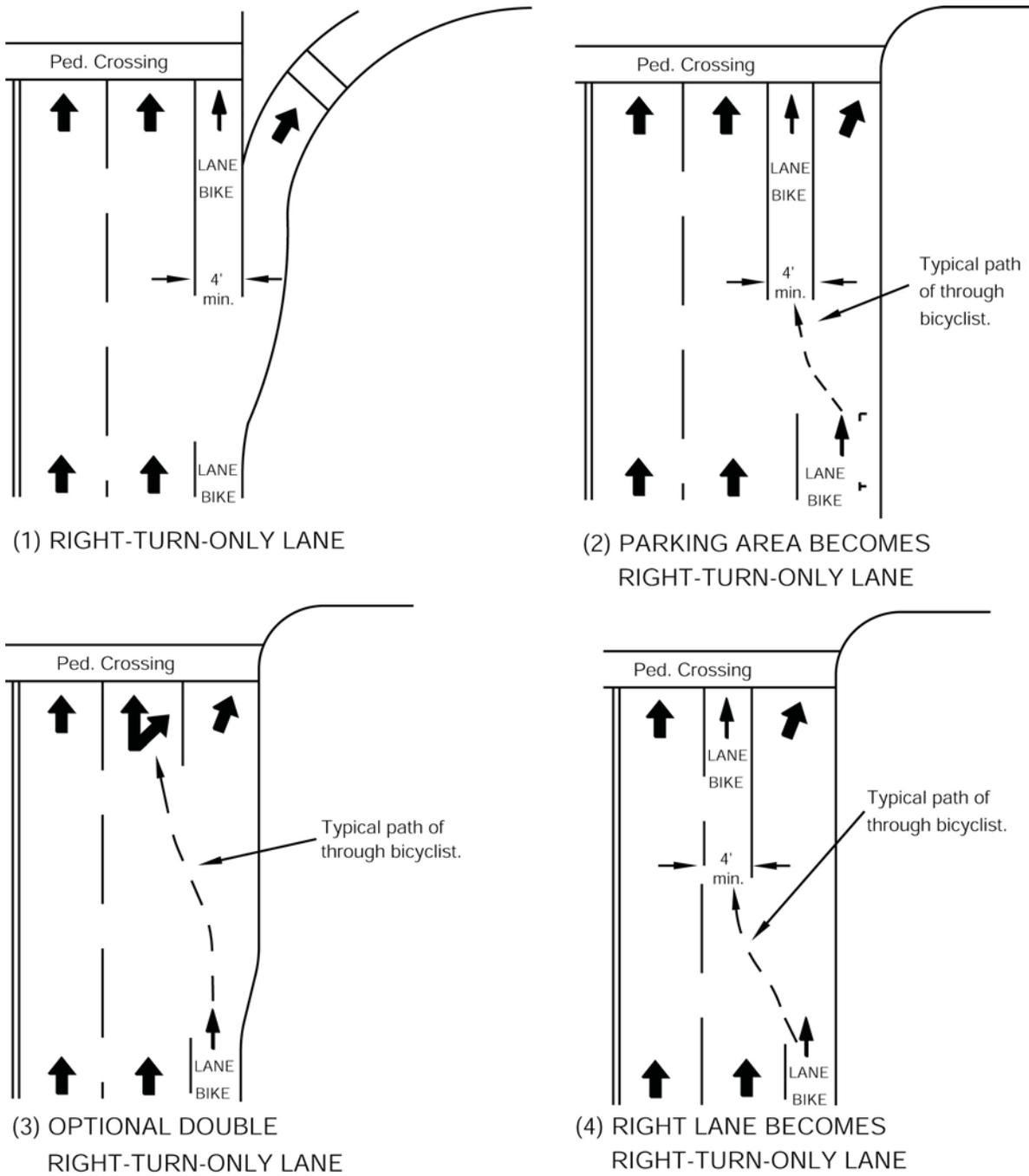
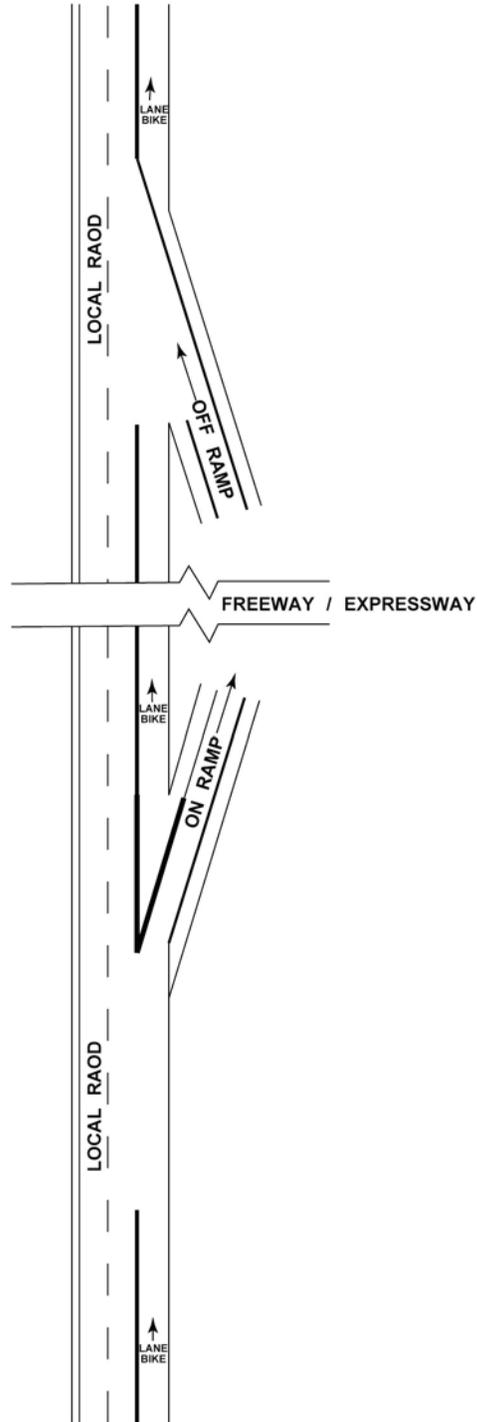


Figure 1003.2C
Bike Lanes Approaching Motorist
Right-turn-only Lane



Note: For bicycle lane markings, see the MUTCD and California Supplement, Section 9C.04.

**Figure 1003.2D
Bike Lanes Through
Interchanges**



Notes:

- 1.) See Index 1003.2(4) for additional information.
- 2.) The shoulder width shall not be reduced through the interchange area. The minimum shoulder width shall match the approach roadway shoulder width, but not less than 4 feet or 5 feet if a gutter exists. If the shoulder width is not available, the designated bike lane shall end at the previous local road intersection.
- 3.) See Index 1003.3(4) for information on Bike Routes Through Interchanges.

- (d) Street parking has been removed or restricted in areas of critical width to provide improved safety.
- (e) Surface imperfections or irregularities have been corrected (e.g., utility covers adjusted to grade, potholes filled, etc.).
- (f) Maintenance of the route will be at a higher standard than that of other comparable streets (e.g., more frequent street sweeping).

(2) *Sidewalk Bikeway Criteria.* In general, the designated use of sidewalks (as a Class III bikeway) for bicycle travel is unsatisfactory.

It is important to recognize that the development of extremely wide sidewalks does not necessarily add to the safety of sidewalk bicycle travel, as wide sidewalks will encourage higher speed bicycle use and can increase potential for conflicts with motor vehicles at intersections, as well as with pedestrians and fixed objects.

Sidewalk bikeways should be considered only under special circumstances, such as:

- (a) To provide bikeway continuity along high speed or heavily traveled roadways having inadequate space for bicyclists, and uninterrupted by driveways and intersections for long distances.
- (b) On long, narrow bridges. In such cases, ramps should be installed at the sidewalk approaches. If approach bikeways are two-way, sidewalk facilities should also be two-way.

Whenever sidewalk bikeways are established, a special effort should be made to remove unnecessary obstacles. Whenever bicyclists are directed from bike lanes to sidewalks, curb cuts should be flush with the street to assure that bicyclists are not subjected to problems associated with crossing a vertical lip at a flat angle. Also curb cuts at each intersection are necessary. Curb cuts should be wide enough to accommodate adult tricycles and two-wheel bicycle trailers.

In residential areas, sidewalk riding by young children too inexperienced to ride in the street

is common. With lower bicycle speeds and lower auto speeds, potential conflicts are somewhat lessened, but still exist. Nevertheless, this type of sidewalk bicycle use is accepted. But it is inappropriate to sign these facilities as bikeways. Bicyclists should not be encouraged (through signing) to ride facilities that are not designed to accommodate bicycle travel.

(3) *Destination Signing of Bike Routes.* For Bike Route signs to be more functional, supplemental plates may be placed beneath them when located along routes leading to high demand destinations (e.g., "To Downtown"; "To State College"; etc. For typical signing, see the MUTCD and California Supplement, Figures 9B-5 and 9B-6.

There are instances where it is necessary to sign a route to direct bicyclists to a logical destination, but where the route does not offer any of the above listed bike route features. In such cases, the route should not be signed as a bike route; however, destination signing may be advisable. A typical application of destination signing would be where bicyclists are directed off a highway to bypass a section of freeway. Special signs would be placed to guide bicyclists to the next logical destination. The intent is to direct bicyclists in the same way as motorists would be directed if a highway detour was necessitated.

(4) *Interchange Design* As with bikeway design through at-grade intersections, bikeway design through interchanges should be accomplished in a manner that will minimize confusion by motorists and bicyclists. Designers should work closely with the local agency in designing bicycle facilities through interchanges. Local Agencies should carefully select interchange locations which are most suitable for bikeway designations and where the crossing meets applicable design standards. The local agency may have special needs and desires for continuity through interchanges which should be considered in the design process.

Within the Interchange area the bike route shall require either an outside lane width of 16-foot or a 12-foot lane and a 4-foot shoulder. If the above width is not available,

the designated bike route shall end at the previous local road intersection.

1003.4 Bicycles on Freeways

In some instances, bicyclists are permitted on freeways. Seldom would a freeway be designated as a bikeway, but it can be opened for use if it meets certain criteria. Essentially, the criteria involve assessing the safety and convenience of the freeway as compared with available alternate routes. However, a freeway should not be opened to bicycle use if it is determined to be incompatible. The Headquarters Traffic Liaisons and the Design Coordinator must approve any proposals to open freeways to bicyclists.

If a suitable alternate route exists, it would normally be unnecessary to open the freeway. However, if the alternate route is unsuitable for bicycle travel the freeway may be a better alternative for bicyclists. In determining the suitability of an alternate route, safety should be the paramount consideration. The following factors should be considered:

- Number of intersections
- Shoulder widths
- Traffic volumes
- Vehicle speeds
- Bus, truck and recreational vehicle volumes
- Grades
- Travel time

When a suitable alternate route does not exist, a freeway shoulder may be considered for bicycle travel. Normally, freeways in urban areas will have characteristics that make it unfeasible to permit bicycle use. In determining if the freeway shoulder is suitable for bicycle travel, the following factors should be considered;

- Shoulder widths
- Bicycle hazards on shoulders (drainage grates, expansion joints, etc.)
- Number and location of entrance/exit ramps
- Traffic volumes on entrance/exit ramps
- Bridge Railing height

When bicyclists are permitted on segments of freeway, it will be necessary to modify and supplement freeway regulatory signs, particularly those at freeway ramp entrances and exits, see the MUTCD and California Supplement, Section 9B.101.

Where no reasonable alternate route exists within a freeway corridor, the Department should coordinate with local agencies to develop or improve existing routes or provide parallel bikeways within or adjacent to the freeway right of way.

The long term goal is to provide a safe and convenient non-freeway route for bicycle travel.

1003.5 Multipurpose Trails

In some instances, it may be appropriate for agencies to develop multipurpose trails - for hikers, joggers, equestrians, bicyclists, etc. Many of these trails will not be paved and will not meet the standards for Class I bikeways. As such, these facilities should not be signed as bikeways. Rather, they should be designated as multipurpose trails (or similar designation), along with regulatory signing to restrict motor vehicles, as appropriate.

If multipurpose trails are primarily to serve bicycle travel, they should be developed in accordance with standards for Class I bikeways. In general, multipurpose trails are not recommended as high speed transportation facilities for bicyclists because of conflicts between bicyclists and pedestrians. Wherever possible, separate bicycle and pedestrian paths should be provided. If this is not feasible, additional width, signing and pavement markings should be used to minimize conflicts.

It is undesirable to mix mopeds and bicycles on the same facility. In general, mopeds should not be allowed on multipurpose trails because of conflicts with slower moving bicyclists and pedestrians. In some cases where an alternate route for mopeds does not exist, additional width, signing, and pavement markings should be used to minimize conflicts. Increased patrolling by law enforcement personnel is also recommended to enforce speed limits and other rules of the road.

It is usually not desirable to mix horses and bicycle traffic on the same multipurpose trail. Bicyclists are often not aware of the need for slower speeds and additional operating space near horses. Horses

can be startled easily and may be unpredictable if they perceive approaching bicyclists as a danger. In addition, pavement requirements for safe bicycle travel are not suitable for horses. For these reasons, a bridle trail separate from the multipurpose trail is recommended wherever possible.

1003.6 Miscellaneous Bikeway Criteria

The following are miscellaneous bikeway criteria which should be followed to the extent pertinent to Class I, II and III bikeways. Some, by their very nature, will not apply to all classes of bikeway. Many of the criteria are important to consider on any highway where bicycle travel is expected, without regard to whether or not bikeways are established.

(1) *Bridges.* Bikeways on highway bridges must be carefully coordinated with approach bikeways to make sure that all elements are compatible. For example, bicycle traffic bound in opposite directions is best accommodated by bike lanes on each side of a highway. In such cases, a two-way bike path on one side of a bridge would normally be inappropriate, as one direction of bicycle traffic would be required to cross the highway at grade twice to get to and from the bridge bike path. Because of the inconvenience, many bicyclists will be encouraged to ride on the wrong side of the highway beyond the bridge termini.

The following criteria apply to a two-way bike path on one side of a highway bridge:

- (a) The bikeway approach to the bridge should be by way of a separate two-way facility for the reason explained above.
- (b) **A physical separation, such as a chain link fence or railing, shall be provided to offset the adverse effects of having bicycles traveling against motor vehicle traffic.** The physical separation should be designed to minimize fixed end hazards to motor vehicles and if the bridge is an interchange structure, to minimize sight distance restrictions at ramp intersections.

It is recommended that bikeway bridge railings or fences placed between traffic lanes and bikeways be at least 54 inches high to

minimize the likelihood of bicyclists falling over the railings. Standard bridge railings which are lower than 46 inches can be retrofitted with lightweight upper railings or chain link fence suitable to restrain bicyclists. See Index 208.10(6) for guidance regarding bicycle railing on bridges.

Separate highway overcrossing structures for bikeway traffic shall conform to Department standard pedestrian overcrossing design loading. The minimum clear width shall be the paved width of the approach bikeway but not less than 8 feet. If pedestrians are to use the structure, additional width is recommended.

- (2) *Surface Quality.* The surface to be used by bicyclists should be smooth, free of potholes, and the pavement edge uniform. For rideability on new construction, the finished surface of bikeways should not vary more than ¼ inch from the lower edge of an 8-foot long straight edge when laid on the surface in any direction.

Table 1003.6 indicates the recommended bikeway surface tolerances for Class II and III bikeways developed on existing streets to minimize the potential for causing bicyclists to lose control of their bicycle (Note: Stricter tolerances should be achieved on new bikeway construction.) Shoulder rumble strips are not suitable as a riding surface for bicycles. See the MUTCD and California Supplement, Chapter 3B for additional information regarding rumble strip design considerations for bicycles.

- (3) *Drainage Grates, Manhole Covers, and Driveways.* Drainage inlet grates, manhole covers, etc., on bikeways should be designed and installed in a manner that provides an adequate surface for bicyclists. They should be maintained flush with the surface when resurfacing.

Table 1003.6
Bikeway Surface
Tolerances

Direction of Travel	Grooves ⁽¹⁾	Steps ⁽²⁾
Parallel to travel	No more than ½" wide	No more than ⅜" high
Perpendicular to travel	---	No more than ¾" high

Notes:

- (1) Groove--A narrow slot in the surface that could catch a bicycle wheel, such as a gap between two concrete slabs.
- (2) Step--A ridge in the pavement, such as that which might exist between the pavement and a concrete gutter or manhole cover; or that might exist between two pavement blankets when the top level does not extend to the edge of the roadway.

Drainage inlet grates on bikeways shall have openings narrow enough and short enough to assure bicycle tires will not drop into the grates (e.g., reticulate type), regardless of the direction of bicycle travel. Where it is not immediately feasible to replace existing grates with standard grates designed for bicycles, 1" x ¼" steel cross straps should be welded to the grates at a spacing of 6 inches to 8 inches on centers to reduce the size of the openings adequately.

Corrective actions described above are recommended on all highways where bicycle travel is permitted, whether or not bikeways are designated.

Future driveway construction should avoid construction of a vertical lip from the driveway to the gutter, as the lip may create a problem for bicyclists when entering from the edge of the roadway at a flat angle. If a lip is deemed necessary, the height should be limited to ½ inch.

- (4) *At-grade Railroad Crossings and Cattle Guards.* Whenever it is necessary to cross railroad tracks with a bikeway, special care must be taken to assure that the safety of

bicyclists is protected. The bikeway crossing should be at least as wide as the approaches of the bikeway. Wherever possible, the crossing should be straight and at right angles to the rails. For on-street bikeways where a skew is unavoidable, the shoulder (or bike lane) should be widened, if possible, to permit bicyclists to cross at right angles (see Figure 1003.6A). If this is not possible, special construction and materials should be considered to keep the flangeway depth and width to a minimum.

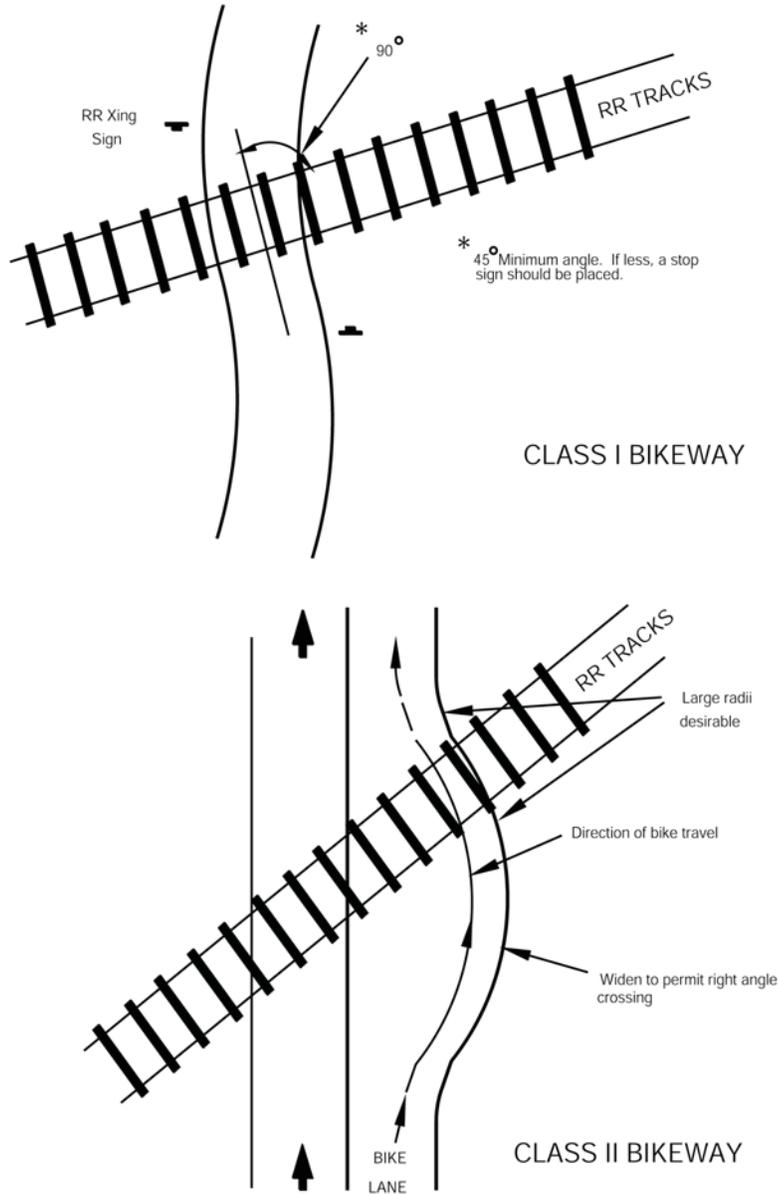
Pavement should be maintained so ridge buildup does not occur next to the rails. In some cases, timber plank crossings can be justified and can provide for a smoother crossing. Where hazards to bicyclist cannot be avoided, appropriate signs should be installed to warn bicyclists of the danger.

All railroad crossings are regulated by the California Public Utilities Commission (CPUC). All new bike path railroad crossings must be approved by the CPUC. Necessary railroad protection will be determined based on a joint field review involving the applicant, the railroad company, and the CPUC.

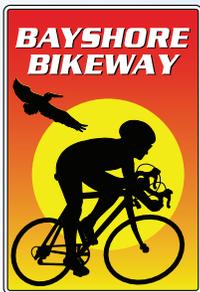
The presence of cattle guards along any roadway where bicyclists are expected should be clearly marked with adequate advance warning.

- (5) *Obstruction Markings.* Vertical barriers and obstructions, such as abutments, piers, and other features causing bikeway constriction, should be clearly marked to gain the attention of approaching bicyclists. This treatment should be used only where unavoidable, and is by no means a substitute for good bikeway design. See the MUTCD, Section 9C.06.

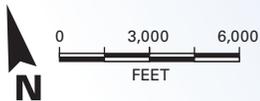
Figure 1003.6A
Railroad Crossings



San Diego BAYSHORE BIKEWAY



- BIKE PATH
- ON-STREET LANE/ROUTE
- CONSTRUCTION PROJECTS
- ⋯ PLANNED PROJECTS



Imperial Beach: Let's Move Together!

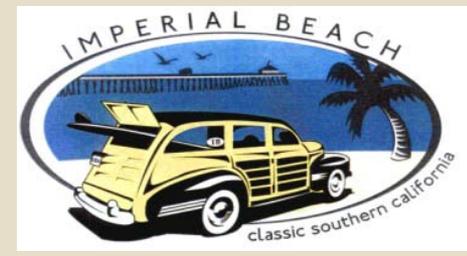


SAFE ROUTES TO SCHOOL PLAN

FINAL REPORT



A project funded by Caltrans Environmental Justice Grant
Transportation Planning Grant Program 2010-2011



Introduction



- The Imperial Beach: Let's Move together project was a Caltrans Environmental Justice Grant resulting in a Safe Routes to School Plan detailing the infrastructure improvements needed around Imperial Beach schools.
- It was a partnership between the City of Imperial Beach and WalkSanDiego, a local non-profit organization specializing in pedestrian planning and advocacy.
- The project was based on a Non-Infrastructure Safe Routes to School Program.
- The project was a 2-year program from February 2011 through January 2013.

The Need



- Imperial Beach is located in southwestern San Diego County, adjacent to the international border with Mexico and the border crossing at San Ysidro.
- It is largely a working class community. In 2007 the median household income was \$38,068, 19% of the population lived below the poverty line (\$21,200 or less for a family of four).
- It has a population of 26,000, a 4% reduction since 2000; 47% Latino, 41% White, 7% Asian/Pacific Islander, and less than 1% Native American.
- Approximately 32% of the population is younger than 20 years old. Imperial Beach has one of the youngest median ages of any California city with a median age of 29 years.



The Need



- Imperial Beach was designed to accommodate the car. Several decades of car-oriented development has led to a culture of driving as the easiest mode of transportation. This has given way to a dramatic reduction in walking among children and adults. This, along with other factors, has led to increasing health problems commonly associated with less active lifestyles.
- The City has few bikeways and limited public transit services, which are in need of enhanced pedestrian accessibility
- Many of the accidents associated with bicyclist are the result of bicyclist riding improperly (on the sidewalk, against traffic, not wearing a bike helmet)

Goals



- Creation of community-based tools to be used by City to improve conditions around the schools
 - Walkability Work Plans highlighting Pedestrian & Bicyclist Issues
 - Safe Routes to School Program Report Plans
- Empowering low-income and minority residents to influence decision makers to create a change
 - Policies that encourage active transportation in the School District
 - Leverage for project improvements around schools with the City
- Sustainability
 - Creation of a Core Group of parent volunteers
 - Find future funding opportunities

Purpose and Approach:

Safe Routes to School and Advocacy Approach

The Purpose of this project was to identify hazards and address pedestrian improvements to increase safety and enable the community to safely walk and bicycle to school.

The Approach

Through 8 different tasks, adapt the Safe Routes to School Program components in addition to an Empowerment component to this Environmental Justice program working on the 7 public schools within the City of Imperial Beach.

- **Project Schools within Imperial Beach:**
 - Bayside Elementary
 - Central Elementary
 - Imperial Beach Elementary
 - Oneonta Elementary
 - West View (Now I.B. West)
 - VIP Village
 - Mar Vista High School

Methodology by Tasks



- 1. Steering Committee:** Engagement of City Staff, School Staff, and other stakeholders to oversee this environmental justice program.
- 2. Walkability Workshop:** Educate residents about issues of safety and walkability. Solicit input from residents about their neighborhood through school workshops. Resulting on a Walkability Work Plans/report that were later submitted to the City to address infrastructure deficiencies.
- 3. Walkability Coalitions:** Creations of a parent/school based group to approach the issues considered important at the schools communities.
- 4. 5 E's Workshop:** training to identify different strategies primarily around education, encouragement and enforcement that could be implemented in the school to improve and increase walking and biking.



Methodology by Tasks



The Methodology (*continued*)

5. **Implementation of 5 E's:** Hold Walk to School Day events to educate and encourage residents to walk their children to school safely, as well as educate drivers to slow down while children are walking to school.
6. **Advocacy and Empowerment:** training designed to provide residents with the skills and expertise required to represent their best interests in the decision making process after the completion of the project.
7. **Technical Support:** on all aspects of program development and execution throughout the duration of the project, and acting as liaison with the City of Imperial Beach's continuing engineering assessments and improvements in the vicinity of the target schools.
8. **Community Engagement:** to conduct outreach and engage the community throughout the length of the project, including the Walkability Workshops, the 5 E's Workshop, the Advocacy Workshop and various community meetings, etc.



Task 1: Steering Committee



- Kick off meeting (March 2, 2011)
- Quarterly meetings
 - WalkSanDiego facilitated 8 meetings (between March 22, 2011 and January 22, 2013) to update the stakeholder participants and to receive input and direction from them.

Participants included:

- School principals
- HHSA rep.
- Sheriff Department
- SBUSD Transportation
- City of I.B. – Public Works
- Non-profits sector

Task 2: Walkability Workshops



Workshops were provided on school campuses in both languages, Spanish and English, as needed.

Walkability Presentation

Presentation showed barriers to a walkable community and illustrated how various physical improvements can both encourage walking and enhance pedestrian safety.



Walk Audits

Workshop participants were led on walk audits around school's streets. City staff was present to listen to residents concerns and take note of infrastructure issues that they themselves witness.

Task 2: Walkability Workshops



Community Mapping

After the walk audit, workshop participants returned to the school site where they broke into facilitated groups with school neighborhood maps. Pedestrian safety and missing infrastructure concerns along with suggested improvements were noted on table sized maps and large chart paper.



Voting

The groups reconvened as a whole to share their comments with each other and then vote on their top priorities.

Task 2: Walkability Workshops

Walkability Work Plans:

A Walkability Work Plan was created for each school as a result of each workshop/school see Appendix A.

City, Schools' principals and WSD responded to barriers and/or issues identified by the community.

Mar Vista Students recorded video voice of different issues happening around the school.



Imperial Beach: Let's Move Together!
¡Caminemos Juntos: Imperial Beach!



CENTRAL ELEMENTARY SCHOOL NEIGHBORHOOD/ VECINDARIO DE LA ESCUELA CENTRAL
Pedestrian & Bicyclist Issues/ Temas de Peatones y Ciclistas

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 23 residents, Sheriff Department staff and Public Works Department staff at Central Elementary School located at 1290 Ebony Avenue, Imperial Beach, CA 91932 on October 19th, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Central Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 23 residentes y personal del departamento del Sheriff y personal del departamento de obras públicas en la Escuela Primaria Central ubicada en 1290 Ebony Avenue, Imperial Beach, CA 91932 el 19 de Octubre de 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Central (definido por los límites de asistencia escolar), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues. (Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority):
Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales. (Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ Temas Identificados por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Central E. S. Comments/ Comentarios de la Escuela Primaria Central	City's Comments/ Comentarios de la Ciudad
1. Location/Ubicación: 13th Street (26 votes)			
13th Street & Elder Avenue intersection: a. No stop sign for safe crossing/ <i>No hay señal de alto para que sea seguro cruzar</i> 	13th Street & Elder Avenue intersection: [Votes 11] a. Add stop sign at intersection/ <i>Agregar una señal de alto en la intersección (4)</i>	13th Street & Elder Avenue intersection: a. This area seems to be where speed continues to increase even with the Crosswalk. I recommend a sign that has the speed of the vehicle displayed as well as some sort of noise maker that the car runs over to remind the driver that it is time so slow down! <i>Parece que en esta área es donde continua a incrementar aun con el cruce peatonal. Yo recomendaria una señal que muestre la velocidad del vehiculo así como algún aparato que haga ruido para que se le recuerde al vehiculo que pase de que es hora de reducir la velocidad.</i>	13th Street & Elder Avenue intersection: a. 13 th Street has received a grant to reduce the travel lanes and create bike lanes. One lane of traffic in each direction will greatly improve the ability to cross the street safely and act as traffic calming for the street. The intent of the existing raised crosswalk at Ebony/13 th is to draw all school-related traffic that needs to cross 13 th St. to it. It is unnecessary to demand school crossing along 13 th Street at other locations! <i>La 13th Street recibió fondos para reducir el número de carriles y crear un camil ciclista. Un camil en cada sentido mejorara la</i>

Task 3: Walkability Coalitions



Parents Coalitions

- Through dozens of meetings and activities, interested parents from different schools were engaged and formed coalitions that focused on the following priorities:
 - ✦ Promotion and awareness of pedestrian safety and physical activity
 - Walk to School Days organization
 - Central E.S. parents plan to continue holding Walk to School Days throughout the school year.
 - ✦ Bicycling to School
 - The initial focus was to reverse the “no bike to school” policy.
 - Effort resulted in a Safe Routes to School policy that was adopted by SBUSD where bicycling to school is recognized to promote physical activity and to reduce vehicular traffic and air pollution in the vicinity of schools.

Task 3: Walkability Coalitions



Interagency coalition:

- As the project evolved, issues and priorities were identified and stakeholders from the appropriate (Public Safety, Public Works and SBUSD) agencies gathered to approach issues identified by parents.
 - ✦ Will continue to meet to discuss:
 - Current City projects
 - Issues that schools are facing around schools
 - Potential funding opportunities to collaborate and apply for grant funds
 - Applied for a 2013 OTS Pedestrian and Bicycle Safety grant

Task 4: 5 E's Workshop



5 E's workshops and activities were provided on school campuses in both Spanish and English as needed

Safe Route to School (SRTS) Presentation

WalkSanDiego presented program activities focused on **E**ducation, **E**ncouragement, **E**nforcement, **E**ngineering and **E**valuation that can be conducted as part of a comprehensive non-infrastructure safe routes to school program.



Task 4: 5 E's Workshop



Safe Routes to School Program Report Plan

- WalkSanDiego created a report for each participating school.
- Parents discussed and planned out education, encouragement, and enforcement activities that could be conducted at their child's school as part of a safe routes to school program. This was the basis to organize Walk to School Days at the Elementary Schools and Bike to School Day at Mar Vista.
- All full SRTS 5 E's reports available in Appendix B.



Imperial Beach: Let's Move Together
 Bayside Elementary School/ *Escuela Primaria Bayside*
 Safe Routes to School (SRTS) Program
 Programa de Rutas Seguras a la Escuela (SRTS)



WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 12 residents, City and Sheriff's Department staff at Bayside Elementary School located at 490 Emory Street, Imperial Beach, CA 91932 on January 18, 2012 to identify activities to support children to safely commute to Bayside Elementary School.
 WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 12 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Primaria Bayside ubicado en 490 Emory Street, Imperial Beach, CA 91932 el 18 de Enero de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Bayside.

Workshop participants suggested the following activities to support children safely commute to school:
 Los participantes del taller sugirieron las siguientes actividades para apoyar niños a caminar o ir a la escuela de manera segura:

Vision for Bayside Elementary SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Bayside:

- More kids walking to school
Que más niños caminen a la escuela
- More security, sense of safety and increased safety
Más seguridad y sentido de seguridad
- More education for children on safe walking, etc.
Más educación a los niños sobre seguridad peatonal, etc.

The following activities were suggested for the Bayside Elementary School SRTS program:
 Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela Bayside

	Activities/ Actividades
Education/ Educación	<ul style="list-style-type: none"> • Students/ Estudiantes <ul style="list-style-type: none"> ◦ Educate students in classrooms, connect classroom education to encouragement activities/ <i>Educar a los estudiantes dentro del salón de clases, conexión entre la educación en el salón de clase y las actividades de motivación</i> • Parents/ Padres de Familia <ul style="list-style-type: none"> ◦ Engage parents to engage other parents/ <i>Involucrar a los padres para que involucren a otros padres de familia</i>

Task 5: Implementation of 5 E's



Walk to School Celebrations (2011, 2012 and 2013)

- **General**

- All six SBUSD schools located in Imperial Beach participated in a Walk to School Day on a date selected by principals at the steering committee meeting. The purpose of the event was to educate and encourage residents to walk/bike their children to school safely, as well as educate drivers to slow down while children are walking to school.

- **Public Safety**

- Electronic signs were placed in the City to create awareness.

- **Walk to School Day Activities**

- Central E.S. parents looked for donations and were able to get a bicycle that was raffled among kids who walked to school.
- Bayside E.S. principal donated a bicycle to be raffled among kids who walked to school.
- Central parents, led by ELAC president held the second Walk to School Day (W2SD) in the school year and are planning to continue this activity throughout the year.

Task 5: Implementation of 5 E's



Walk to School Day



Task 5: Implementation of 5 E's



Bike to School Day

• General

- High school students organized the event with the purpose to promote a healthier and more sustainable mode of transportation and to create awareness of the need to have safer streets, specially when a high number of students are commuting to school.

• Public Safety

- Elm Street eastbound was closed to increase safety and a better bicycle traffic in front of the school during drop-off time.
- An electronic sign was placed in front of the school to create awareness.

• Walk to School Day Activities

- Students created signs and placed them throughout the school to create awareness and encourage students to bike to school.
- Event done during SANDAG's bike to work day allowed to apply for incentives (water, beverages, stickers, nutrition bars and t-shirts) to be given away to bicyclists riding to school or passing by.



Task 5: Implementation of 5 E's



Bike to School Day



Bike to Mar Vista

May 18, 2012



To get to school looking good & in one piece, don't forget:

- Wear your helmet on every ride
- Obey all traffic lights, signs and laws. Bicyclists must follow the rules of the road like other vehicles. Do not ride your bike on the sidewalks.
- Don't be a distracted biker – that text can wait, put away cell phones or iPods while riding!
- Always ride with the flow of traffic. Riding against traffic is dangerous.
- Ride where drivers can see you and don't swerve between cars or buses.
- Enter streets, intersections and driveways cautiously – Always check for oncoming traffic.
- Let drivers know what you're doing: use hand signals before making turns.
- Ride defensively on the road - Anticipate hazards and be ready to adjust your position in traffic.
- Be visible and be seen - wear bright colors to increase your visibility.
- If you must ride at dusk or after dark, use headlights and taillights – white in the front, red in the back.
- Walk your bike on school property
- Park and lock your bike behind Mar Vista Library, if there is not enough space you can lock it on the fence.

On May 18th, enter the school through the front gate and look for the table on Elm Avenue. Ride to school early and get t-shirt while they last.

Task 5: Implementation of 5 E's

Evaluation

- A post-project survey (Appendix D) was implemented in Spanish and English with a focus group of parents (parents engaged in one or more of the project's activities) to measure levels of walking/biking to and from school among students and any changes in the perception of parents.



 **Imperial Beach: Let's Move Together**
Focus Group Survey 

1. What grade(s) does/do your child(ren) attend at this school?

2. How far do you live from school?
___ less than ¼ mile ___ ¼ mile up to 1 mile ___ More than 2 miles
___ ¼ mile up to ½ mile ___ 1 mile up to 2 miles ___ Don't Know

3. Before your involvement in this program, on most days, how did your child(ren) travel to and from school?

<u>Travel to School</u>	<u>Travel from School</u>
___ Walk	___ Walk
___ Bike	___ Bike
___ School Bus	___ School Bus
___ Family vehicle (only children in your family)	___ Family vehicle (only children in your family)
___ Carpool (Children from other families)	___ Carpool (Children from other families)
___ Transit (City bus, trolley, etc)	___ Transit (City bus, trolley, etc)
___ Other (skateboard, scooter, inline skates, etc)	___ Other (skateboard, scooter, inline skates, etc)

4. How does/do your child(ren) travel to and from school on most days now?

<u>Travel to School</u>	<u>Travel from School</u>
___ Walk	___ Walk
___ Bike	___ Bike
___ School Bus	___ School Bus
___ Family vehicle (only children in your family)	___ Family vehicle (only children in your family)
___ Carpool (Children from other families)	___ Carpool (Children from other families)
___ Transit (City bus, trolley, etc)	___ Transit (City bus, trolley, etc)
___ Other (skateboard, scooter, inline skates, etc)	___ Other (skateboard, scooter, inline skates, etc)

English 1

Task 5: Implementation of 5 E's



Evaluation Results: Focus Group Survey

- The majority of parents reported that their children asked for permission to walk to/from school in the last year.
- Most parents reported that the SRTS program changed their perspective in a positive manner.
 - ✦ Parents felt more involved,
 - ✦ were more aware of the positive benefits associated with walking to school,
 - ✦ more aware of drivers on the road.
- Parents also had a more positive view of the school after the SRTS program because they felt the school was encouraging healthy behaviors.

Task 5: Implementation of 5 E's



Evaluation Results: Focus Group Survey (continued)

- The main reasons children were not permitted to walk or bike to school were due to:
 - ✦ time and weather restrictions,
 - ✦ distance from school, and
 - ✦ violence or crime in the area.
- The majority of parents surveyed reported they would bike with or allow their children to bike to/from school if bicycle racks were available or if better bicycle infrastructure (e.g. bike lanes) were available.

Task 6: Advocacy and Empowerment



Advocacy training

Purpose

Create a capacity to advocate for the implementation of recommended treatments and physical improvements, and any potential policy changes and to enable them to meet effectively with local Planning Committees, neighborhood associations, City staff, school districts, and local elected officials jurisdictions to make the necessary improvements.

Outcome

The training enabled stakeholders to become engaged in the decision making process with City staff and elected officials (SBUSD Board) in ways that are positive, constructive and productive through tools and strategies to advocate and technical knowledge.

Task 6: Advocacy and Empowerment



Presentation to Decision Makers

A group of parents that was interested in letting their children bike to school choose to advocate with the purpose of having SBUSD to allow children to bike to school and decided to present to the following groups:

- SBUSD Staff and City staff
- SBUSD Board of Trustees



Task 7: Technical Support



Support to City

Program Development

Throughout the program, WalkSanDiego acted as a liaison between City, I.B. Community, and SBUSD with the purpose of understanding the different needs in order to provide the appropriate resources and best practices examples such as:

- Implementation of Bike Corrals
- SRTS policy examples
- Referred stakeholders to SRTS policy experts
 - Public Health Law and Policy
 - National Partnership for SRTS

Task 8: Community Engagement



WalkSanDiego used the following outreach methods to engage parents and stakeholder in order to develop the needed public participation:

- Flyers,
- phone calls,
- emails,
- posters,
- marquee announcements, p
- hone calls through the school's ed-connect.



Task 8: Community Engagement

Walk to School Day

Would you like for it to be safer for you and your child to walk to school?

STOP

Would you like to help identify and fix speeding issues in your neighborhood?

On **October 19th** you are invited to celebrate Walk to School Day

Walk from home with your child or park your car 2 blocks away and walk your child to school

While walking remember to:

- Walk, do not run, on the sidewalk if there is one; if there is no sidewalk, walk on the left side of the street facing oncoming traffic
- When crossing the street: 1) Stop at the curb; 2) Look left, right, left again for cars; 3) Listen for vehicles; 4) Make eye contact with drivers to make sure they stop for you

Remember that the school has two points of entry

Community Input about Safety

The City of Imperial Beach, WalkSanDiego & the South Bay Union School District invite you to provide input to help find a solution to the traffic problems in your neighborhood. The purpose is that, the City of Imperial Beach, based on your input, are aware of the most important problems for your community and identifies which are the safety issues that need to be solved first in order to create a safer community.

Where? ONEONTA ELEMENTARY SCHOOL (during the Halloween parade)
1311 10th Street, Imperial Beach, CA 91932

When? Monday October 31st, 2011 at 8:30 am

For more information, contact:



Juan Antonio Ramirez
619-544-WALK (9255)
jaramirez@walksandiego.org



Outcomes



Community Input Reports

- Can be used as a leveraging tool when applying for infrastructure/non infrastructure grants

Coordination between local entities

- Public Safety, Public Works and SBUSD

Influence Decision Makers to Create Changes

- School District Bike to School Policy

Education and Awareness

- Target population educated around issues considered in the grant

Sustainability

- W2SD planned to continue through parent leadership at Central Elementary

Recommendations



Engineering

- City to consider the prioritized issues identified by parents in the Walkability Work Plan (Appendix A) when approaching infrastructure issues throughout the City.
- City to use walkability Work Plans (Appendix A) as a leveraging tool to apply for funding.

Education, Encouragement and Enforcement

- To maintain momentum created at project's schools, it is recommended that schools, parents and stakeholders implement the activities identified in the SRTS reports (Appendix B).

Future funding

- Appendix C includes a list of potential funding opportunities that the City or appropriate entity could apply for either:
 - ✦ Infrastructure projects
 - ✦ Non-infrastructure project

Recommendations



Additional recommendations

- In order to better implement the recently SRTS policies adopted by SBUSD, schools should create awareness/promotion of the policy and emphasize the healthier and more sustainable transportation options for getting to school.
- Individual schools to promote active transportation.
- Through policies and appropriate infrastructure and practices (enforcement, education campaign/program and other best practices), the City of I.B. should lead an effort to promote the correct use of bicycles (e.g., riding with traffic, not against it, using bicycle helmets, etc.) to improve the safety of residents and reduce injuries.

Imperial Beach: Let's Move Together!



WalkSanDiego

619.544.9255

www.walksandiego.org

City of Imperial Beach

619.423.8311

www.cityofib.com

Appendix A

Walkability Work Plans

These infrastructure Improvement Reports highlight Pedestrian and Bicyclists Issues





Imperial Beach: Let's Move Together!
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BAYSIDE ELEMENTARY SCHOOL NEIGHBORHOOD/ VECINDARIO DE LA ESCUELA BAYSIDE
Pedestrian & Bicyclist Issues/ Temas de Peatones y Ciclistas

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 16 residents, Sheriff Department staff and Public Works Department staff at Bayside Elementary School located at 490 Emory Street, Imperial Beach, CA 91932 on September 20th, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Bayside Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 16 residentes y personal del departamento del Sheriff y personal del departamento de obras públicas en la Escuela Primaria Bayside ubicada en 490 Emory Street, Imperial Beach, CA 91932 el 20 de Septiembre del 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Bayside (definido por los límites de asistencia escolar), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales. (Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
1. Location/Ubicación:	10th Street		(14 votes)
<p><u>In front of the school at 10th Street & Cherry Avenue Intersection:</u></p> <p>a. People do not respect safety patrol, people do not respect stop sign/ <i>La gente no respeta a la patrulla de seguridad, la gente no respeta la señal de alto</i></p> 	<p><u>In front of the school at 10th Street & Cherry Avenue Intersection:</u> [Votes 9]</p> <p>a. Install bulb-outs to have safety patrol more visible, seek funding to buy vests for safety patrol, more volunteers (parents) for safety patrol, install flashing lights on a high visibility crosswalk, install a red flashing light on stop sign/ <i>Pone extensión en la banqueta/esquina para que la patrulla de seguridad sea más visible, buscar financiamiento para comprar chalecos para la patrulla de seguridad, mas voluntarios (padres) para la patrulla de seguridad, poner luces parpadeantes en un cruce peatonal de alta visibilidad, poner luz parpadeante roja sobre la señal de alto (9)</i></p>	<p><u>In front of the school at 10th Street & Cherry Avenue Intersection:</u></p> <p>a. To increase student visibility, paint a crosswalk (with lines/design inside)[high visibility crosswalk]/ <i>Para incrementar la visibilidad de los estudiantes, pintar un cruce peatonal (con líneas/diseño por dentro)[cruce peatonal de alta visibilidad]</i></p>	<p><u>In front of the school at 10th Street & Cherry Avenue Intersection:</u></p> <p>a. City will place this improvement on a future project list with the advice of the Traffic Engineer Consultant/ <i>La Ciudad pondrá esta mejora en una lista de proyectos futuros bajo consejo del consultor en ingeniería de tránsito.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
<p><u>Side of the school on 10th Street near City Building:</u></p> <p>b. Cars turning around near City Building, cars double or triple parked / <i>Carros dando vuelta cerca del edificio de la Ciudad, [carros] estacionados en doble/ triple fila</i></p> <p>c. Vehicles double or triple parking and getting out to take children to school, vehicles parking on public works department lot, parents not respecting safety patrol procedures and rules! / <i>Vehículos estacionados en doble o triple fila y gente se sale a llevar a los niños a la escuela, vehículos estacionados en el lote del departamento de obras publicas, los padres de estudiantes no respetan los procedimientos y reglas de la patrulla de seguridad!</i></p> <p><u>10th Street & Calla Avenue intersection:</u></p> <p>d. No stop sign on 10th, cars don't let pedestrians cross because its only 2 way stop / <i>No hay señal de alto en 10th, los carros no dejan cruzar a los peatones porque solo hay alto en dos sentidos</i></p> <p><u>10th Street near school:</u></p> <p>e. Cars don't stop, speeding / <i>Los carros no paran, altas velocidades</i></p>	<p><u>Side of the school on 10th Street near City Building:</u> [Votes 3]</p> <p>b. School zone enforcement, one way between 7:00 – 8:30am / <i>Que se aplique zona escolar, un solo sentido entre 7:00 – 8:30am (3)</i></p> <p>c. Install a traffic circle, open a parking lot on vacant space north of school at end of tenth / <i>Instalar una glorieta, abrir un lote de estacionamiento en el espacio baldío al norte de la escuela al final de Tenth Avenue</i></p> <p><u>10th Street & Calla Avenue Intersection:</u> [Votes 2]</p> <p>d. Stop signs at intersection of Calla and 10th Street to make it a 4 way stop / <i>Señal de alto en la intersección de Calla Avenue y 10th Street para hacer esta una intersección de 4 sentidos (2)</i></p> <p><u>10th Street near school:</u></p> <p>e. High visibility crosswalk with lights where existing is located to alert drivers / <i>Cruces peatonales de alta visibilidad con luces en donde se encuentra ubicado el actual para alertar a los conductores</i></p>	<p><u>Side of the school on 10th Street near City Building:</u></p> <p>b. No comment was provided by school principal / <i>La directora de la escuela no brindo ningún comentario</i></p> <p>c. Traffic circle would allow cars to turnaround. Signs might be needed to remind parents to use area as drop off only area / <i>Una glorieta podría permitir que los carros de vuelta. Se podrían necesitar señalamientos que recuerden a los padres de familia que utilicen el área solamente como área para desabandar.</i></p> <p><u>10th Street & Calla Avenue Intersection:</u></p> <p>d. A 4 way stop sign might cause confusion in the neighborhood as to when and where to stop / <i>Una señal de alto podría causar confusión en el vecindario en relación de cuando y donde hacer alto</i></p> <p><u>10th Street near school:</u></p> <p>e. Maybe post signs reminding of speed limit and school zone / <i>Tal vez instalar señales que recuerden el límite de velocidad y que es zona escolar</i></p>	<p><u>Side of the school on 10th Street near City Building:</u></p> <p>b. Public Safety monitors this area when resources are available / <i>Seguridad publica monitorea esta área cuando hay recursos disponibles</i></p> <p>c. This suggestion is not accepted. The vacant space north of the school is to be modified for a new Bayshore Bikeway Access project / <i>Esta sugerencia no se acepta. El espacio baldío al norte de la escuela será parte del proyecto Bayshore Bikeway Access.</i></p> <p><u>10th Street & Calla Avenue Intersection:</u></p> <p>d. Refer to Traffic Engineer Consultant for evaluation / <i>A referir al Consultor en Ingeniería de Transito para evaluación</i></p> <p><u>10th Street near school:</u></p> <p>e. Refer to Traffic Engineer Consultant for evaluation / <i>A referir al Consultor en Ingeniería de Transito para evaluación</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
2. Location/Ubicación:		Calla Street (6 votes)	
<p><u>Calla Avenue & Florida Street Intersection:</u></p> <p>a. Vehicles driving both – westbound and eastbound – approaching this intersection drive very fast, “slow down” sign [by Teeple Park] is not big enough and is blocked by trees/ <i>Vehículos manejando en ambas direcciones este y oeste – hacia esta intersección van muy rápido, la señal de “reducir la velocidad” [por Teeple Park] no es lo suficientemente grande y está siendo bloqueada por los arboles</i></p>  <p>b. No stop sign on Florida Street, cars don't let pedestrians cross because its only 2 way stop/ <i>No hay señal de alto en Florida Street, los carros no dejan cruzar a los peatones porque solo hay alto en dos sentidos</i></p>	<p><u>Calla Avenue & Florida Street Intersection;</u> [Votes 6]</p> <p>a. Put more signage and paint asphalt for visibility asking drivers to slow down for children, install speed bumps/humps or have City install appropriate traffic calming devices, install high visibility crosswalk with flashing lights/ <i>Poner más señalamientos y marcaciones en el asfalto por visibilidad que indiquen a los conductores que reduzcan su velocidad por los niños, poner topes o que la Ciudad ponga medidas apropiadas para reducir velocidades, poner cruces peatonales de alta visibilidad con luces parpadeantes (5)</i></p> <p>b. Stop signs at intersection of Calla & Florida Street to make it a 4 way stop/ <i>Señal de alto en la intersección de Calla Aveue y Florida Street para hacer esta una intersección de 4 sentidos (1)</i></p>	<p><u>Calla Avenue & Florida Street Intersection;</u></p> <p>a. Additional signs that are visible will help/ <i>Ayudaría tener señales adicionales que sean visibles</i></p> <p>b. Adding a stop sign here would break up the pattern. Not sure if this is necessary/ <i>Agregar una señal de alto aquí podría romper el patrón. Inseguro de que esto sea necesario.</i></p>	<p><u>Calla Avenue & Florida Street Intersection:</u></p> <p>a. East / West bound traffic is controlled by intersection stop signs. The “slow down” sign is no longer blocked by trees. Other vehicle speed calming suggestions will be evaluated with the Traffic Engineer Consultant/ <i>El trafico en dirección Este/Oeste tiene señales de alto en la intersección. La señal de “reducir la velocidad” ya no está bloqueada por arboles. Se evaluarán las recomendaciones para reducir la velocidad de los vehículos con el Consultor de Ingeniería de Transito.</i></p> <p>b. Will be evaluated by Traffic Engineer Consultant/ <i>Sera evaluada por el Consultor de Ingeniería de Transito.</i></p>
3. Location/Ubicación:		Around School (6 votes)	
<p><u>Safety Patrol:</u></p> <p>a. Cars don't listen to safety patrol/ <i>Los vehículos no escuchan a la patrulla de seguridad</i></p> 	<p><u>Safety Patrol:</u> [Votes 4]</p> <p>a. Better educate parents and students/ <i>Educar mejor a los padres y estudiantes(4)</i></p>	<p><u>Safety Patrol:</u></p> <p>a. Deputy to stand with safety patrol and or monitor traffic/ <i>Persona autorizada que se esté junto a la patrulla de seguridad y/o monitoree el trafico</i></p>	<p><u>Safety Patrol:</u></p> <p>a. Public Safety will monitor this as resources are available/ <i>Seguridad Publica monitoreara esto conforme haya recursos.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
<p>Rail Road tracks behind school:</p> <p>b. Don't know who is walking here its blind to school and City/ <i>No se sabe quien camina allí no se ve de la escuela y la Ciudad</i></p>	<p>Rail Road tracks behind school: [Votes 2]</p> <p>b. Study to make rail road safer for kids/ <i>Un estudio para hacer más seguras las vías del tren(2)</i></p>	<p>Rail Road tracks behind school:</p> <p>b. Not an issue/ <i>No es un problema</i></p>	<p>Rail Road tracks behind school:</p> <p>b. With the opening of the Bayshore Bikeway Access project at 10th Street may reduce the number of students choosing to walk the railroad tracks/ <i>Con la apertura del proyecto Bayshore Bikeway Access en la 10th Street se pueden reducir el número de estudiantes que caminan por las vías del tren.</i></p>
4. Location/Ubicación:		Emory Street (5 votes)	
<p>Emory Street between Bayside E.S. & Cypress Avenue:</p> <p>a. Cars dropping off and picking up kids create traffic congestion and conflicts, people dropping off kids in the middle of the street, lots of u-turns because cars need to go back on same streets, lots of cars block school bus access/ <i>Carros que dejan o recogen niños crean congestionamiento vehicular y conflictos , gente deja a los niños a la mitad de la calle, muchos carros dando vueltas en u por que los carros necesitan regresarse por la misma calle, muchos carros bloquean el acceso de los camiones escolares</i></p> 	<p>Emory Street between Bayside E.S. & Cypress Avenue: [Votes 5]</p> <p>a. No through traffic between school drop off and pick up time “peak times”, “rush hour times” find way to just open or just make it available for residents, volunteers to be at Emory and Cypress Avenue/ <i>Que no entre el trafico entre horarios de entrada y salida de vehículos en “horas pico”, encontrar manera de solo abrirlo o que solo esté disponible para los residentes, que haya voluntarios en Emory Street y Cypress Avenue (5)</i></p>	<p>Emory Street between Bayside E.S. & Cypress Avenue:</p> <p>a. Perhaps make the area closest to the school a no parking area so that parents who drop off are able to turn car around. Neighbors complain about parents parking in their driveways or blocking the area. Parents become especially frustrated on trash day. Could trash pick up day be changed to Saturday????? <i>Tal vez hacer el área mas cerca a la escuela en un área de no estacionamiento para que los padres de familia que dejan a sus hijos puedan dar vuelta. Los vecinos se quejan de que los padres de familia se estacionan en sus entradas vehiculares u obstruyen el área. Los padres de familia están especialmente frustrados por los días de recolección de basura. ¿Podría cambiarse el día de recolección de basura al sábado?</i></p>	<p>Emory Street between Bayside E.S. & Cypress Avenue:</p> <p>a. This issue has been evaluated by Public Safety and Traffic Engineer Consultant with no satisfactory resolution. City will continue to evaluate this as resources are available. Residential refuse service if not provided on weekends/ <i>Este problema ha sido evaluado por Seguridad Publica y el Consultor en Ingeniería de Transito con una resolución no satisfactoria. La Ciudad continuará evaluando esto conforme haya recursos disponibles. El residencial rechazo el servicio si no es brindado en fines de semana.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
5. Location/Ubicación: (4 votes)			
<p><u>Cherry Avenue & 11th Street Intersection:</u></p> <p>a. No sidewalk on north side/ <i>No hay banqueta en el lado norte</i></p>  <p><u>Cherry Avenue & Eleventh Street intersection:</u></p> <p>b. Blind corner – specially when lots of cars are parked, missing sidewalk on north side of Eleventh and Cherry intersection causes children to cross the street at the blind corner/ <i>Esquina con puntos ciegos especialmente cuando hay muchos carros estacionados, no hay banqueta en el lado norte de la intersección de la Calle Once y Cherry causa que los niños cruces la calle en la intersección</i></p>	<p><u>Cherry Avenue & 11th Street Intersection:</u> [Votes 3]</p> <p>a. Build sidewalk over rail road tracks/ <i>Construir banqueta sobre las vías del tren (3)</i></p> <p><u>Cherry Avenue & Eleventh Street Intersection:</u> [Votes 1]</p> <p>b. “Children Crossing” , “Warning Zone” or appropriate signs, put high visibility crosswalks at this intersection, finish installing missing sidewalk / <i>[Instalar] señales de “niños cruzando”, “Zona Preventiva” o señales apropiadas, poner cruces peatonales de alta visibilidad en esta intersección, finalizar de instala lo que falta de la banqueta (1)</i></p>	<p><u>Cherry Avenue & 11th Street Intersection:</u></p> <p>a. Add side walk or make this side a no-pedestrian area/ <i>Agregar una banqueta o que en este lado no se permitan peatones</i></p> <p><u>Cherry Avenue & Eleventh Street intersection:</u></p> <p>b. Add signs/ <i>Agregar señales</i></p>	<p><u>Cherry Avenue & 11th Street Intersection:</u></p> <p>a. This will be referred to Traffic Engineer Consultant as resources are available/ <i>Esto será referido al Consultor en Ingeniería de Transito conforme haya recursos disponibles.</i></p> <p><u>Cherry Avenue & Eleventh Street intersection:</u></p> <p>b. Issue will be referred to Traffic Engineer Consultant when resources are available/ <i>Esto será referido al Consultor de Ingeniería de Transito conforme haya recursos disponibles.</i></p>
6. Location/Ubicación: (4 votes)			
<p><u>Bike path west of School all the way to Saturn Blvd</u></p> <p>a. Around Saturn Boulevard there a lots of people loitering makes residents to feel uncomfortable to use bike path in morning to walk children/ <i>Alrededor de Saturn Boulevard hay mucha gente holgazaneando y hace que los residentes sientan desconfianza para utilizar la ciclovía para encaminar a los niños por la mañana</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd:</u> [Votes 4]</p> <p>a. More police surveillance (partnership between City of San Diego and City of Imperial Beach)/ <i>Mas vigilancia policiaca (coordinación entre la Ciudad de San Diego y la Ciudad de Imperial Beach (4)</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd:</u></p> <p>a. Sherriff drive to this area to put gas in patrol cars. Perhaps as a routine, after putting gas in car, they can go to check this area. I agree, there is a need for more surveillance/ <i>El Sheriff maneja por esta área de cargar las patrullas de gasolina. Tal vez como rutina, después de cargar los carros de gasolina, podrían ir a checar el área. Estoy de acuerdo, hay necesidad de más vigilancia.</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd:</u></p> <p>a. This will be referred to Public Safety Department/ <i>Esto será referido al Departamento de Seguridad Publica.</i></p>

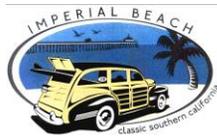
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
7. Location/Ubicación:			
9th Street (1 vote)			
<p><u>9th Street cul-de-sac near school:</u></p> <p>a. Street is safe for drop off but no one uses it / <i>La calle es segura para que descarga de pasajeros pero nadie los utiliza</i></p>  <p><u>9th Street to Cherry Avenue - west:</u></p> <p>b. No connection between streets/ <i>No hay conexión entre vialidades</i></p>	<p><u>9th Street cul-de-sac near school:</u> [Votes 1]</p> <p>a. Use 9th Street instead - to drop off students and walk right into campus, study alternatives to better use this street, pathway-walkway onto campus/ <i>Utilizar 9th Street para dejar a los estudiantes y que caminen directo al campus escolar, estudiar alternativas para mejorar el uso de esta calle – camino – sendero peatonal hacia la escuela(1)</i></p> <p><u>9th Street to Cherry Avenue - west:</u></p> <p>b. Make one-way street to connect 9th Street to Cherry or use field at 9th Street as drop off location for parents/ <i>Hacer esta calle de un solo sentido para conectar 9th Street a Cherry o utilizar el campo en 9th Street como una ubicación para desbordar estudiantes por los padres de estudiantes</i></p>	<p><u>9th Street cul-de-sac near school:</u></p> <p>a. If police are present at the other intersections, parents will gravitate to this area/ <i>Si la policía está presente en otras intersecciones, los padres de familia se dirigirán a esta área</i></p> <p><u>9th Street to Cherry Avenue - west:</u></p> <p>b. Not sure what this would entail/ <i>No estoy segura a que se refiere esto</i></p>	<p><u>9th Street cul-de-sac near school:</u></p> <p>a. This issue will be referred to Public Safety Department. Also City recommends increased education of parents to use 9th Street as an alternative entry to school. Also we should consider working with the school to evaluate creating a larger dropoff zone on school property at the end of 9th Street/ <i>Este problema será referido al Departamento de Seguridad Publica. La Ciudad también recomienda aumentar la educación de los padres para que utilicen 9th Street como entrada alternativa a la escuela. También consideraríamos trabajar con la escuela para evaluar la creación de una zona más grande para desabordar estudiantes en la zona escolar al final de la 9th Street.</i></p> <p><u>9th Street to Cherry Avenue - west:</u></p> <p>b. This would require the school to dedicate a vehicle lane across school property to make this connection/ <i>Esto requeriría que la escuela dedique un carril vehicular que cruce por la escuela para crear esta conexión.</i></p>

Outside City of Imperial Beach / Ubicacion fuera de la Ciudad de Imperial Beach:

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Bayside Elementary School Comments/ Comentarios de la Escuela Bayside	City's Comments/ Comentarios de la Ciudad
8. Location/Ubicación:		Bay Shore Bikeway (4 votes)	
<p><u>Bike path west of School all the way to Saturn Blvd</u></p> <p>a. Around Saturn Boulevard there a lots of people loitering makes residents to feel uncomfortable to use bike path in morning to walk children/ <i>Alrededor de Saturn Boulevard hay mucha gente holgazaneando y hace que los residentes sientan desconfianza para utilizar la ciclovía para encaminar a los niños por la mañana</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd;</u> [Votes 4]</p> <p>a. More police surveillance (partnership between City of San Diego and City of Imperial Beach)/ <i>Mas vigilancia policiaca (coordinación entre la Ciudad de San Diego y la Ciudad de Imperial Beach (4)</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd;</u></p> <p>a. Police surveillance/ <i>Vigilancia policiaca</i></p>	<p><u>Bike path west of School all the way to Saturn Blvd:</u></p> <p>a. Public Safety resources will be made available when possible/ <i>Cuando sea posible se harán disponibles los recursos de Seguridad Publica.</i></p>

For more information please contact/ Para más información, por favor comuníquese con:

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CENTRAL ELEMENTARY SCHOOL NEIGHBORHOOD/VECINDARIO DE LA ESCUELA CENTRAL
Pedestrian & Bicyclist Issues/ Temas de Peatones y Ciclistas

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 23 residents, Sheriff Department staff and Public Works Department staff at Central Elementary School located at 1290 Ebony Avenue, Imperial Beach, CA 91932 on October 19th, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Central Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 23 residentes y personal del departamento del Sheriff y personal del departamento de obras públicas en la Escuela Primaria Central ubicada en 1290 Ebony Avenue, Imperial Beach, CA 91932 el 19 de Octubre de 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Central (definido por los límites de asistencia escolar), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority):

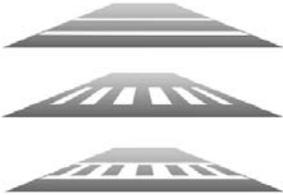
Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Central E.S. Comments/ <i>Comentarios de la Escuela Primaria Central</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
1. Location/Ubicación: 13th Street (26 votes)			
<p><u>13th Street & Elder Avenue intersection:</u></p> <p>a. No stop sign for safe crossing/ <i>No hay señal de alto para que sea seguro cruzar</i></p> 	<p><u>13th Street & Elder Avenue intersection:</u> [Votes 11]</p> <p>a. Add stop sign at intersection/ <i>Agregar una señal de alto en la intersección (4)</i></p>	<p><u>13th Street & Elder Avenue intersection:</u></p> <p>a. This area seems to be where speed continues to increase even with the Crosswalk. I recommend a sign that has the speed of the vehicle displayed as well as some sort of noise maker that the car runs over to remind the driver that it is time so slow down/ <i>Parece que en esta area es donde continua a incrementar aun con el cruce peatonal. Yo recomendaría una señal que muestre la velocidad del vehiculo asi como algún aparato que haga ruido para que se le recuerde al vehiculo que pase de que es hora de reducir la velocidad.</i></p>	<p><u>13th Street & Elder Avenue intersection:</u></p> <p>a. 13th Street has received a grant to reduce the travel lanes and create bike lanes. One lane of traffic in each direction will greatly improve the ability to cross the street safely and act as traffic calming for the street. The intent of the existing raised crosswalk at Ebony/13th is to draw all school-related traffic that needs to cross 13th St. to it. It is unnecessary to demand school crossing along 13th Street at other locations/ <i>La 13th Street recibió fondos para reducir el número de carriles y crear un carril ciclista. Un carril en cada sentido mejorara la</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Central E.S. Comments/ Comentarios de la Escuela Primaria Central	City's Comments/ Comentarios de la Ciudad
<p>b. No stop sign and there are many kids crossing here/ <i>No hay una señal de alto y aquí hay muchos niños cruzando</i></p> <p>13th Street Corridor:</p> <p>c. There are 2 way stops at intersections but cars don't stop for pedestrians because they don't have a stop sign/ <i>Hay señales de alto en dos direcciones en la intersección pero los carros no paran cuando van peatonales por que no tienen señal de alto</i></p> <p>13th Street & Ebony Avenue Intersection:</p> <p>d. Not many people see raised crosswalk/ <i>No mucha gente ve el cruce peatonal elevado</i></p>  <p>e. Not many people stopping for pedestrians/ <i>No mucha gente hace el alto para los peatones</i></p>	<p>b. Install a stop sign with a red flashing light, put more signage: warning signs, school signs, install a raised crosswalk like the one on Ebony & 13th Street/ <i>Poner una señal de alto con luces rojas parpadeantes, poner más señalamientos de precaución y zona escolar, poner un cruce peatonal elevado como el que esta en [la intersección de] Ebony Avenue y 13th Street (7)</i></p> <p>13th Street Corridor: [Votes 7]</p> <p>c. Add stop signs on 13h to make a 4-way stop/ <i>Agregar señal de alto en la [Calle] 13 para que haya alto en 4 direcciones (7)</i></p> <p>13th Street & Ebony Intersection: [Votes 6]</p> <p>d. Make it more visible with flashing lights/ <i>Hacerlo más visible con luces parpadeantes (3)</i></p>  <p>e. Install a stop sign/ <i>Poner una señal de alto (3)</i></p>	<p>b. No comment was provided by school principal/ <i>El director de la escuela no brindo ningún comentario</i></p>  <p>13th Street Corridor:</p> <p>c. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p> <p>13th Street & Ebony Intersection:</p> <p>d. Too much speed is gained over the course of time from Palm and 13th to 13th and Ebony. Cars fly over the raised crosswalk and pedestrians and students on Patrol are at risk. Elevated flashing lights, speed bumps and noise makers would help remind drivers to slow down. Stop sign an option? I am very concerned about pedestrians and students on patrol/ <i>Se adquiere mucha velocidad conforme pasa el tiempo yendo desde Palm Avenue y 13th Street hasta 13th Street y Ebony Avenue. Los carros vuelan por el cruce peatonal elevado y se pone en riesgo a los peatones y estudiantes de la patrulla escolar. Ayudaría tener luces parpadeantes elevadas, topes y elementos que creen ruido para que recuerde a los conductores que reduzcan su velocidad. ¿Sería un semáforo una opción? Estoy muy preocupado por la seguridad de los peatones y de la patrulla escolar.</i></p> <p>e. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p>	<p><i>seguridad al cruzar la calle y actuara como reductor de velocidad en la vialidad. El propósito del cruce elevado en Ebony y 13th Street es canalizar hacia esta intersección todo el tráfico escolar peatona que cruza en la 13th Street. Es innecesario demandar un cruce peatonal en otras ubicaciones de la 13th Street.</i></p> <p>b. See item a. above/ <i>Ver el comentario a. arriba.</i></p> <p>13th Street Corridor:</p> <p>c. See item a. above./ <i>Ver el comentario a. arriba.</i></p> <p>13th Street & Ebony Intersection:</p> <p>d. Recent construction at this intersection has added flashing lights at crossing. Additionally enhanced street and curb striping have been added/ <i>En la reciente construcción de esta intersección se agregaron luces parpadeantes al cruce. Además, se mejoro la calle y se agregaron líneas al borde de la banqueta.</i></p> <p>e. Recent construction at this intersection has added flashing lights at crossing. Additional enhanced street and curb striping have been added/ <i>En la reciente construcción de esta intersección se agregaron luces parpadeantes al cruce. Además, se mejoro la calle y se agregaron líneas al borde de la banqueta.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Central E.S. Comments/ Comentarios de la Escuela Primaria Central	City's Comments/ Comentarios de la Ciudad
<p><u>13th Street between Palm Avenue & Imperial Beach Boulevard:</u></p> <p>f. No stop signs or lights in between and cars go very fast. Central E.S. is right in the middle[of this segment]/ <i>No hay señal de alto o semáforos entre estas dos calles y los carros van muy rápido, la escuela Primaria Central esta en medio [de este segmento]</i></p>	<p><u>13th Street between Palm Avenue & Imperial Beach Boulevard:</u> [Votes 2]</p> <p>f. Install a stop sign on Elder Avenue and 13th or on 13th Street and Ebony Avenue that includes a red flashing light/ <i>Poner una señal de alto en [la intersección de Elder Avenue y 13th Street o en la de 13th Street y Ebony Avenue que incluya una luz roja parpadeante (2</i></p>	<p><u>13th Street between Palm Avenue & Imperial Beach Boulevard:</u></p> <p>f. Fear of traffic backed up to this intersection if patrol students have a high volume of pedestrians crossing/ <i>Miedo de que el tráfico se atrase hasta esta intersección si los estudiantes de la patrulla tienen un alto volumen de peatones cruzando</i></p>	<p><u>13th Street between Palm Avenue & Imperial Beach Boulevard</u></p> <p>f. See item a above/ <i>Ver el comentario a. arriba.</i></p>
<p>2. Location/Ubicación: Ebony Avenue (10 votes)</p>			
<p><u>Ebony Avenue & Florence Street intersection:</u></p> <p>a. Crosswalk on one side/ <i>Cruce peatonal en un lado</i></p>  <p><u>Ebony Avenue in front of Central Elementary:</u></p> <p>b. [High] speed/ <i>[Altas] velocidades</i></p>	<p><u>Ebony Avenue & Florence Street intersection:</u> [Votes 5]</p> <p>a. Add marked crosswalk on other side of street/ <i>Agregar un cruce peatonal marcado en el otro lado de la calle(5)</i></p> <p><u>Ebony Avenue in front of Central Elementary:</u> [Votes 5]</p> <p>b. Stop sign and speed bumps/ <i>Señal de alto y topes (5)</i></p>	<p><u>Ebony Avenue & Florence Street intersection:</u></p> <p>a. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p> <p><u>Ebony Avenue in front of Central E.S.:</u></p> <p>b. Traffic during release time creates a situation of double parking and makes it challenging for the busses to get through. Although we try to educate students and parents to use crosswalks or never to get into a double parked car we see it all the time. Parents who leave their cars unattended before the staff on duty get out to this street cause a huge traffic jam/ <i>El tráfico a la hora de salida crea una situación en que se estacionan en doble fila y crean dificultades para los camiones escolares pasen. A pesar de que tratamos de educar a que los estudiantes y a los padres de familia para que utilicen el cruce peatonal o para que nunca se estacionen en doble fila vemos que esto sucede todo el tiempo. Los padres que dejan sus vehículos sin atención antes de que el personal salga, ocasionan grandes cantidades de congestionamiento.</i></p>	<p><u>Ebony Avenue & Florence Street intersection:</u></p> <p>a. Student safety is increased with pedestrian channeled to one route rather than having multiple crossings at an intersection/ <i>La seguridad de los estudiantes se mejora canalizándolos a una ruta en lugar de tener muchos cruces en las intersecciones.</i></p> <p><u>Ebony Avenue in front of Central E.S.:</u></p> <p>b. The City currently has no provisions for installing speed bumps/humps. Public Safety will be encouraged to provide traffic enforcement as time is available/ <i>La Ciudad actualmente no tiene provisiones para instalar topes. Se motivara a que Seguridad Pública aplique más medidas policíacas conforme a la disponibilidad de tiempo.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Central E.S. Comments/ <i>Comentarios de la Escuela Primaria Central</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
3. Location/Ubicación: Elder Avenue (5 votes)			
<p><u>Elder Avenue:</u></p> <p>a. No stop sign east of Georgia St (City of San Diego) but many kids come that way because there are many apartments/ <i>No hay señal de alto al este de Georgia Street (Ciudad de San Diego) pero muchos niños vienen de esa área porque hay muchos apartamentos</i></p> <p><u>Elder Avenue between 13th Street & 12th Street:</u></p> <p>b. Parents dropping off [children] on Elder Avenue and make U-turn at Florence Street in middle of the street/ <i>Padres de familia bajando [a los niños a la escuela] en Elder Avenue y dan vueltas en U en Florence Street a mitad de la Calle</i></p>	<p><u>Elder Avenue:</u></p> <p style="text-align: right;">[Votes 3]</p> <p>a. Have school district coordinate with City of San Diego to put more stop signs/ <i>Que el distrito escolar se coordine con la Ciudad de San Diego para poner más señales de alto(3)</i></p> <p><u>Elder between 13th Street & 12th Street:</u></p> <p style="text-align: right;">[Votes 2]</p> <p>b. Add marked crosswalk and signage for "NO U-turns"/ <i>Agregar cruce peatonal marcado y señal de "NO vueltas en U" (2)</i></p> <div style="text-align: center;">  </div>	<p><u>Elder Avenue:</u></p> <p>a. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p> <p><u>Elder between 13th Street & 12th Street:</u></p> <p>b. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p>	<p><u>Elder Avenue:</u></p> <p>a. City will have Traffic Engineer consultant investigate this suggestion/ <i>La Ciudad hará que el consultor en Ingeniería de Transito investigue esta sugerencia.</i></p> <p><u>Elder between 13th Street & 12th Street</u></p> <p>b. City will have Traffic Engineer consultant investigate this suggestion/ <i>La Ciudad hará que el consultor en Ingeniería de Transito investigue esta sugerencia.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Central E.S. Comments/ <i>Comentarios de la Escuela Primaria Central</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
4. Location/Ubicación: 12th Street (5 votes)			
<p><u>12th Street & Elm Avenue Intersection:</u></p> <p>a. Frequent crashes, blind intersection due to parked cars and trees, there's senior care and child's day care centers here / <i>Hay choques frecuentemente, es una intersección ciega debido a que hay árboles y carros estacionados, aquí hay un centro para gente de la tercera edad y centros de cuidados infantiles</i></p> <p><u>12th Street near Central Elementary School:</u></p> <p>b. No school zone signs/ <i>No has señales de zona escolar</i></p>	<p><u>12th Street & Elm Avenue Intersection:</u> [Votes 3]</p> <p>a. Special parking zone, signs for awareness, trim trees for better use/ <i>Zona de estacionamiento especial, señales de precaución, podar los arboles para un mejor uso (3)</i></p> <p><u>12th Street near Central Elementary School:</u> [Votes 2]</p> <p>b. Add more school zone signs at 12th Street block/ <i>Agregar más señales de zona escolar en la cuadra de la Calle 12th (2)</i></p>	<p><u>12th Street & Elm Avenue Intersection:</u></p> <p>a. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p> <p><u>12th Street near Central Elementary School:</u></p> <p>b. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p>	<p><u>12th Street & Elm Avenue Intersection:</u></p> <p>a. City will investigate the accident data and evaluate possible subsequent action/ <i>La Ciudad investigará la información de accidentes y evaluará las posibles acciones subsecuentes.</i></p> <p><u>12th Street near Central Elementary School</u></p> <p>b. City will investigate this with the Traffic Engineer Consultant/ <i>La Ciudad investigará esto con el consultor en Ingeniería de Transito.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Central E.S. Comments/ <i>Comentarios de la Escuela Primaria Central</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
5. Location/Ubicación: Imperial Beach Boulevard (4 votes)			
<p>Imperial Beach Boulevard & Florence Street intersection:</p> <p>a. No stop sign, no crosswalk, kids walk from left with nowhere to cross, have to go to 13th St, but don't./ <i>No hay señal de alto, no hay cruce peatonal, los niños caminan desde el lado izquierdo sin algún lugar en donde cruzar tienen que ir hasta la calle 13, pero no lo hacen</i></p>  <p>b. No crosswalk, kids don't walk up to 13th Street/ <i>No hay cruce peatonal, los niños no caminan hasta la [Calle] 13</i></p>	<p>Imperial Beach Boulevard & Florence Street intersection:</p> <p>[Votes4]</p> <p>a. Add marked crosswalk (no stop sign) decorative like Police Dept. one/ <i>Agregar un cruce peatonal marcado que sea decorativo como el que se encuentra por el Departamento de Policía (2)</i></p> <p>b. Add crosswalk/ <i>Agregar un cruce peatonal (2)</i></p>	<p>Imperial Beach Boulevard & Florence Street intersection:</p> <p>a. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p> <p>b. No comment was provided by school principal/ <i>La directora de la escuela no brindo ningún comentario</i></p>	<p>Imperial Beach Boulevard & Florence Street intersection:</p> <p>a. Student safety is enhanced by educating students to use the signalized intersection, rather than installing multiple crossings on a major street/ <i>La seguridad de los estudiantes se mejora con la educación para que se utilicen las intersecciones señalizadas en lugar de instalar muchos cruces en las calles principales</i></p> <p>b. See a. above/ <i>Ver el comentario a. arriba.</i></p>

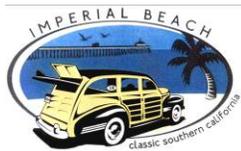
For more information please contact/ Para más información, por favor comuníquese con:

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Imperial Beach: Let's Move Together!
¡Caminemos Juntos: Imperial Beach!



IMPERIAL BEACH ELEMENTARY SCHOOL NEIGHBORHOOD/ *VECINDARIO DE LA ESCUELA IMPERIAL BEACH*
Pedestrian & Bicyclist Issues/ *Temas de Peatones y Ciclistas*

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 16 residents, Sheriff Department staff and Public Works Department staff at Imperial Beach Elementary School located at 650 Imperial Beach Blvd., Imperial Beach, CA 91932 on March 1st, 2012 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Imperial Beach Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 16 residentes y personal del departamento del Sheriff y del departamento de obras públicas en la Escuela Primaria Imperial Beach ubicada en 650 Imperial Beach Blvd., Imperial Beach, CA 91932 el 1ero de Marzo del 2012 para identificar problemas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Imperial Beach (definido por la frontera escolar de asistencia), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

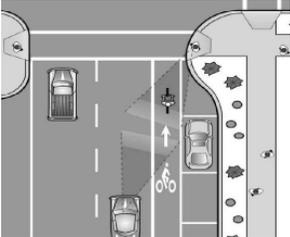
Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority.):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
1. Location/ <i>Ubicación</i>			
Imperial Beach Blvd. (31 votes)			
<p><u>Imperial Beach Boulevard:</u></p> <p>a. Bicyclists on sidewalk because it is safer for them to ride on sidewalk/ <i>Los ciclistas van en la banqueta porque es más seguro pedalear en la banqueta</i></p>  <p>b. During sunset, the planters can't be seen/ <i>Cuando se pone el sol no se pueden ver las macetas [áreas para plantas]</i></p>	<p><u>Imperial Beach Boulevard:</u> [Votes13]</p> <p>a. Install bike lane combined with planters, dividers separating bicyclists from vehicles/ <i>Poner carriles ciclistas combinados con las macetas (áreas para jardinería en la calle), divisores que separen a los ciclistas de los vehículos (11)</i></p> <p>b. Remove them [planters] and put dividers for bicycle lanes or put flashing lights on planters / <i>Quitarlas [areas de plantas] y poner una división para incluir carriles ciclistas o poner luces parpadeantes en las macetas [afeas para plantas] (2)</i></p>	<p><u>Imperial Beach Boulevard:</u></p> <p>a. I am in agreement. Bike lanes would be essential/ <i>Estoy de acuerdo. Los carriles ciclistas serian esenciales</i></p> <p>b. I am in agreement. Flashing lights are also very important/ <i>Estoy de acuerdo. Las luces parpadeantes también son muy importantes</i></p>	<p><u>Imperial Beach Boulevard:</u></p> <p>a. Bicycle Transportation Plan (BTP) has the western section of I.B. Blvd. with a Class 2 bike lane designation. City will be looking for possible grants to make this improvement/ <i>El Plan de Transporte Ciclista (BTP en ingles) designa la sección oeste de I.B. Blvd. con carriles ciclistas Clase 2. La ciudad buscara posibles fuentes de financiamiento para hacer estas mejoras.</i></p> <p>b. Consideration of this modification can be included when the Class 2 bike lane is installed/ <i>Se puede considerar incluir esta modificación cuando el carril ciclista tipo 2 sea instalado.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Imperial Beach E.S. Comments/ Comentarios de la Escuela Imperial Beach	City's Comments/ Comentarios de la Ciudad
<p>c. Sidewalks too narrow/ <i>Las banquetas están muy angostas</i></p> <p><u>Imperial Beach Blvd by front Entrance to IB Elementary:</u></p> <p>d. Many students crossing to south side of I.B. Blvd / <i>Muchos estudiantes cruzan al lado sur de Imperial Beach Blvd</i></p>  <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. Sidewalks around are too narrow, visibility problem on northeast corner due to overgrown vegetation, northwest ramp (gutter) is in bad condition and it is difficult for people in wheelchairs to go through/ <i>Las banquetas alrededor están muy angostas, problemas de visibilidad en la esquina noreste ya que la vegetación esta sobrecrecida, el desagüe en la rampa noroeste esta en malas condiciones y es difícil que la gente en silla de ruedas pueda pasar por allí</i></p>	<p>c. Extend sidewalks, install buffer zone or bike lanes with planters/ <i>Extender las banquetas, poner zonas de separación o carriles ciclistas con macetas [zonas para plantas]</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u> [Votes 9]</p> <p>d. Install a crosswalk combined with an island/ <i>Poner un cruce peatonal combinado con una isleta (9)</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u> [Votes 8]</p> <p>e. Extend sidewalks, City to request owners to trim vegetation, fix it/ <i>Extensión en las banquetas, que la Ciudad solicite a los dueños que poden la vegetación, arreglarlo (8)</i></p> 	<p>c. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u></p> <p>d. I am in agreement that the entrance to the school needs to be safer for students. The crosswalk is not easily seen by drivers turning right into the entrance/ <i>Estoy de acuerdo que la entrada a la escuela necesita ser más segura para los estudiantes. No es fácil que los conductores vean el cruce peatonal cuando dan vuelta a la derecha hacia la entrada.</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. I am in agreement. Just recently a driver hit a pedestrian at the cross walk. Visibility and the sun setting were both factors/ <i>Estoy de acuerdo. Recientemente un conductor golpeo a un peatón en el cruce peatonal. Tanto la visibilidad y la posición del sol fueron factores</i></p>	<p>c. This will be a challenge in certain sections of Imperial Beach Blvd., where the property line is coincident with the edge of the existing sidewalk. This is worth a study to determine solutions/ <i>Esto será un reto en ciertas sección de Imperial Beach Blvd., cuando el limite de la propiedad colinda con la banqueta existente. Valdría la pena un estudio para determinar las soluciones.</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u></p> <p>d. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. City will add this location to possible future improvement plans. <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. No crosswalk/ <i>No hay cruce peatonal</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. North side of Blvd sidewalk all of a sudden gets narrower/ <i>En el lado norte del Blvd la banqueta de repente se hace angosta</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. No crosswalk/ <i>No hay cruce peatonal</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. No sidewalk [on northwest corner]/ <i>No hay banqueta [en la esquina noroeste]</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u> [Votes 1]</p> <p>f. Install crosswalk/ <i>Poner un cruce peatonal (1)</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. Extend the sidewalk on that segment / <i>Extender la banqueta en ese segmento</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. Install crosswalk/ <i>Poner un cruce peatonal</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. Add sidewalk/ <i>Agregar banqueta</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. This will be a challenge at some locations due to the lack of right-of-way/ <i>Esto será un reto en ciertas ubicaciones debido a la falta de derecho de vía.</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. City has an approved grant to construct a new crosswalk just west of 5th Street across from the Sports Park Recreation Center/ <i>La Ciudad ha sido aprobada con una fuente de financiamiento para construir cruce peatonal al oeste de 5th Street frente al Centro Recreativo Deportivo.</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p>

2. Location/ Ubicación **Palm Avenue** **(10 votes)**

<p><u>Palm Avenue:</u></p> <p>a. Needs bike lanes / <i>Necesita carriles ciclistas</i></p> 	<p><u>Palm Avenue:</u> [Votes10]</p> <p>a. Add bike lanes/ <i>Agregar carriles ciclistas (10)</i></p> 	<p><u>Palm Avenue:</u></p> <p>a. I am in agreement that bike lanes should be added/ <i>Estoy de acuerdo que se deberían de incluir carriles ciclistas</i></p>	<p><u>Palm Avenue:</u></p> <p>a. City has received a grant that will add bike lanes to Palm Avenue along with improved pedestrian crosswalks and a road diet (reduction of traffic lanes from 4 to 2)./ <i>La Ciudad ha recibido una fuente de financiamiento para incluir un carril ciclista en Palm Avenue junto con mejoras en el cruce peatonal y una dieta de las calles (reducir el numero de carriles vehiculares de 4 a 2).</i></p>
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Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. Need crosswalks [it is] dangerous for kids to cross/ <i>Necesita un cruce peatonal [es] peligroso para que crucen los niños</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. Need crosswalks [it is] dangerous/ <i>Necesita un cruce peatonal [es] peligroso</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. Add crosswalks/ <i>Agregar cruces peatonales</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. Add crosswalks/ <i>Agregar cruces peatonales</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>a. See a. above/ <i>Ver el comentario a. arriba</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>b. See a. above./ <i>Ver el comentario a. arriba</i></p>
3. Location/ Ubicación			
Elm Avenue (3 votes)			
<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. 9th does not have stop sign, but there is a crosswalk, it is confusing, traffic congestion pedestrians and cars at school pick up time / <i>La 9th street no tiene señal de alto, pero hay un cruce peatonal, es confuso, congestión vial (peatonal y vehicular) a la hora de recoger a los niños de la escuela.</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. Street parking creates visibility problems, very difficult for pedestrians to walk on that area/ <i>El estacionamiento vial ocasiona problemas de visibilidad, muy difícil para para caminar en esa área</i></p>	<p><u>Elm Avenue & 9th Intersection:</u></p> <p style="text-align: right;">[Votes 2]</p> <p>a. Install a roundabout, traffic light, 4 way stop sign <i>Poner una glorieta, poner semáforo o alto en los cuatro sentidos (2)</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p style="text-align: right;">[Votes 1]</p> <p>b. No parking or have City to find an appropriate solution/ <i>No estacionarse o que la Ciudad encuentre soluciones apropiadas (1)</i></p>	<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. I agree that the installation of a 4-way stop sign would eliminate some of the confusion that occurs at this intersection/ <i>Estoy de acuerdo en que la instalación de señales de alto en los 4 sentidos eliminaría algunas de las confusiones que ocurren en esta intersección.</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. City will investigate with our Traffic Engineer consultant/ <i>La Ciudad investigara con nuestro consultor en Ingeniería de Transito</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. City will investigate with our Traffic Engineer consultant/ <i>La Ciudad investigara con nuestro consultor en Ingeniería de Transito</i></p>

For more information please contact/ Para más información, por favor comuníquese con:

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Imperial Beach: Let's Move Together!
¡Caminemos Juntos: Imperial Beach!



MAR VISTA HIGH SCHOOL NEIGHBORHOOD/ *VECINDARIO DE LA ESCUELA MAR VISTA*
Pedestrian & Bicyclist Issues/ *Temas de Peatones y Ciclistas*

WalkSanDiego, in partnership with the City of Imperial Beach and the Sweetwater Union High School District, conducted 5 workshop with 77 Mar Vista H.S. Students at Mar Vista High School located at 505 Elm Avenue, Imperial Beach, CA 91932 during the JrROTC Program in periods 1, 2, 3, 5, and 6 on February 27th and 28th, 2012 to identify pedestrian and bicyclist safety and access issues for students and residents living in the neighborhood surrounding Mar Vista High School, with an emphasis on making it safer for students to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Unificado de Escuelas Preparatorias de Sweetwater realizaron 5 talleres con 77 Estudiantes de la Escuela Preparatoria Mar Vista ubicada en 505 Elm Avenue, Imperial Beach, CA 91932 durante los periodos 1, 2, 3, 5 y 6 de la clase del Programa JrROTC los días 27 y 28 de Febrero de 2012 para identificar problemas relacionados con la seguridad y acceso peatonal y ciclista para los residentes alrededor de la Escuela Preparatoria Mar Vista, con énfasis en la seguridad para que los estudiantes y residentes caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by students, thus determining level of priority.):

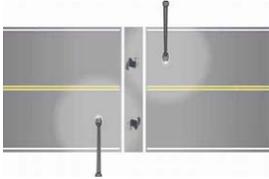
Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los estudiantes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/<i>Ubicación</i> Imperial Beach Blvd. (82 votes)			
<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. People jaywalking to the IB sports park by bus stop/ <i>Gente que cruza la calle a mitad de la cuadra por la parada de autobús para ir al parque de deportes</i></p> 	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u> [Votes 43]</p> <p>a. Install a median crosswalk on IB Blvd and 5th St. intersection/ <i>Poner un cruce peatonal con camellón en la intersección de IB Blvd y 5th Street</i> (43)</p> 	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. The construction of a crosswalk on I.B. Blvd. near 5th Street is funded and will be constructed within the next few months/ <i>La construcción de un cruce peatonal en Imperial Beach Boulevard cerca de 5th Street ha sido financiado y será construido dentro de los próximos meses.</i></p>

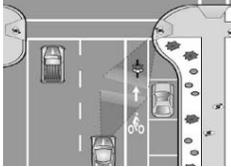
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. Intersections in between are not aligned and people don't go to major intersections to cross, not enough crosswalks in between and many pedestrians crossing (this situation creates a lot of conflicts between pedestrians, bicyclists and drivers)/ <i>Las intersecciones entre medio no están alineadas y la gente no va a las intersecciones principales para cruzar, no hay suficientes cruces peatones entre medio y mucha gente cruza (esta situación crea muchos conflictos entre peatones, ciclistas y conductores)</i></p>	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u> [Votes 13]</p> <p>b. Install medians all the way through (from 13th St to Coast View), install high visibility crosswalks, install type 2 bike lanes/ <i>Instalar camellones en todo el corredor (desde la 13th Street hasta Seacoast Drive), instalar cruces peatonales de alta visibilidad, instalar carriles ciclistas tipo 2 (13)</i></p> 	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. Some medians have been installed on I.B. Blvd. Future median installation is dependent upon funding and right-of-way available. Portions of I.B. Blvd. are scheduled for Class 2 bike lane construction, the remainder is scheduled for Class 3 striping/ <i>Se instalaron camellones en I.B. Blvd. Se instalaran mas camellones en base al derecho de vía y al financiamiento disponible. En partes de I.B. Blvd se construirán carriles ciclistas tipo 2, y en el resto se construirán carriles ciclistas tipo 3.</i></p>
<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. Sidewalk on north side of IB is very narrow/ <i>Banqueta en la parte norte de IB está muy angosta</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u> [Votes 10]</p> <p>c. Make sidewalks bigger (wider)/ <i>Hacer banquetas más grandes [anchas] (10)</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. This is a challenge due to the high retaining wall and immediately adjacent single family dwelling foundation. This issue will remain as an action item for future improvements/ <i>El muro de contención y los cimientos de la propiedad adyacente crean un reto. Este problema será considerado como tema de acción en futuras mejoras de infraestructura.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>IB Blvd. between 13th Street & Mar Vista H.S.</u></p> <p>d. Sidewalk too narrow right next to vehicles without buffer zones, too many car entrances & driveways, broken sidewalks due to tree roots / <i>Banquetas muy angostas junto a los vehículos sin que haya zonas de separación de los vehículos, demasiadas entradas vehiculares, Banquetas rotas debido a las raíces de los arboles</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.</u></p> <p>e. Sidewalk is too narrow/ <i>La banquet a es muy angosta</i></p>  <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. Sidewalks too thin/ <i>Las banquetas son muy delgadas</i></p> 	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u> [Votes 8]</p> <p>d. Put buffer zones, fix sidewalks make them more pedestrian friendly/ <i>Poner zonas de separación, arreglar las banquetas para que sea más amigable para los peatones (8)</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S. :</u> [Votes 3]</p> <p>e. Make more space for pedestrians/ <i>Hacer más espacios para los peatones. (3)</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u> [Votes 3]</p> <p>f. Wider sidewalks with a buffer zone/ <i>Banquetas más anchas con zona de separación (3)</i></p>	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.:</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u></p> <p>d. Correction of this issue is a challenge. There is not sufficient right-of-way to install buffers between vehicle lanes and sidewalk/ <i>Es un reto corregir este problema. No hay suficiente derecho de vía para instalar una separación entre los vehículos y las banquetas.</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.:</u></p> <p>e. See the above response/ <i>Ver la respuesta de arriba.</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. See the above response/ <i>Ver la respuesta de arriba.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p>Imperial Beach Blvd.:</p> <p>g. Crosswalks aren't visible/ <i>Los cruces peatonales no son visibles</i></p>	<p>Imperial Beach Blvd.: [Votes 2]</p> <p>g. Add lighted crosswalks/ <i>Poner un cruce peatonal alumbrado (2)</i></p> 	<p>Imperial Beach Blvd.:</p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Imperial Beach Blvd.:</p> <p>g. All new crosswalks added to Imperial Beach Blvd. have been lighted. No additional lighting is planned for Imperial Beach Blvd./ <i>Todos los cruces peatonales nuevos agregados a I.B. Blvd han sido alumbrados. No hay planes de alumbrado público en Imperial Beach Boulevard.</i></p>
<p>Location/Ubicación</p>		<p>Palm Avenue (70 votes)</p>	
<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. Sidewalks have no buffer, infrequent crosswalks, not visible crosswalks/ <i>Las banquetas no tienen área de separación de los vehículos, cruces peatonales no frecuentes, cruces peatonales no visibles</i></p> 	<p>Palm Avenue - side streets west of M.V.H.S.: [Votes 24]</p> <p>a. Add buffer, add crossings for pedestrian, bright high visibility ladder crosswalks, lighted crosswalks/ <i>Agregar zona de separación, agregar cruce peatonal, cruce peatonal de alta visibilidad estilo escalera, cruce peatonal alumbrado(24)</i></p> 	<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. The new Eco-Bikeway project construction will add lighted crosswalk at 5th Street intersection/ <i>La construcción del nuevo proyecto "Eco-Bike" incluirá un cruce peatonal con alumbrado público en la intersección con 5th Street.</i></p>

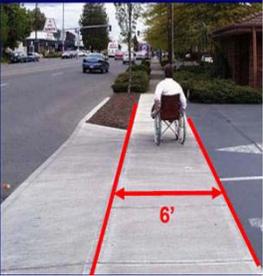
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<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. No sidewalk/ <i>No hay banqueta</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. No place for pedestrian on south side of street/ <i>No hay lugar para los peatones en el lado sur de la calle</i></p>  <p><u>Palm Avenue & Carolina Street intersection:</u></p> <p>d. No stop sign [on Palm Avenue]/ <i>No hay señal de alto[en Palm Avenue]</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u> [Votes 16]</p> <p>b. Install sidewalk/ <i>Instalar banqueta (16)</i></p>  <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u> [Votes 8]</p> <p>c. Install a sidewalk/ <i>Instalar una banqueta (8)</i></p> <p><u>Palm Avenue & Carolina Street intersection:</u> [Votes 5]</p> <p>d. Add stop sign/ <i>Agregar una señal de alto (5)</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & Carolina Street intersection (5):</u></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. New sidewalk is planned as part of the 9th & Palm Shopping Center construction/ <i>Hay planes de una nueva banqueta como parte de la construcción en el Centro comercial de 9th y Palm.</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. New sidewalk is planned as part of the 9th & Palm Shopping Center construction/ <i>Hay planes de una nueva banqueta como parte de la construcción en el Centro comercial de 9th y Palm.</i></p> <p><u>Palm Avenue & Carolina Street intersection (5):</u></p> <p>d. City does not support adding an additional stop sign at this intersection/ <i>La Ciudad no apoya el agregar una señal de alto en esta intersección.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue (SR75) & 7th Street intersection:</u></p> <p>e. On the west side, there is no crosswalk and makes it a lot harder to cross/ <i>En el lado oeste, no hay cruce peatonal y hace que sea muy difícil cruzar</i></p> <p>f. Only one side of the intersection has a crosswalk/ <i>Solo un lado de la intersección tiene cruce peatonal</i></p>  <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. Narrow sidewalk, telephone poles broken in the middle of the sidewalk/ <i>Banquetas angostas, postes de teléfono rotos a la mitad de la banqueta</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. Cars go into bus lane, pedestrian has been hit/ <i>Los vehículos invaden el carril de los camiones, un peatón ha sido golpeado</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u> [Votes 5]</p> <p>e. Adding a cross walk and maybe shortening the wait time to prevent jaywalking/ <i>Agregar un cruce peatonal y a lo mejor reducir el tiempo de espera para prevenir que la gente cruce a la mitad de la calle (5)</i></p> <p>f. Include one more crosswalk on each side/ <i>Incluir un cruce peatonal mas en cada lado</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u> [Votes 4]</p> <p>g. Put a buffer zone. Fix telephone poll/ <i>Poner una zona de separación, arreglar el poste de teléfono (4)</i></p>  <p><u>Palm Avenue & 5th Street intersection:</u> [4 Votes]</p> <p>h. Paint the curb red to keep cars from stopping there/ <i>Pintar el borde de la banqueta de color rojo para prevenir que los vehículos se paren ahí (4)</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>f. See comment e. above/ <i>Ver el comentario e. arriba</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u></p> <p>e. This is a CALTRAN issue/ <i>Este es un asunto para CALTRANS</i></p> <p>f. This is a CALTRANS issue/ <i>Este es un asunto para CALTRANS</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. Palm Avenue is not narrow in this área, so not sure what the concerns are/ <i>Palm Avenue no es angosta en esta área, no estoy seguro en relación a cual es el problema</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. Construction of new Eco Bikeway should resolve this issue/ <i>La construcción de la nueva Eco Bikeway debería resolver este problema</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue west of 7th Street:</u></p> <p>i. Cars driving east bound are still going too fast/ <i>Los vehículos en dirección este todavía van a altas velocidades</i></p>  <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. Sidewalk is narrow, not enough space for pedestrians/ <i>La banqueta es angosta, no hay suficientes espacios para los peatones</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. No buffer from cars, it's scary to walk/ <i>No hay espacio de separación de los vehículos, da miedo caminar</i></p> 	<p><u>Palm Avenue west of 7th Street:</u> [Votes 2]</p> <p>i. More speed limit signs with radar to make drivers aware that they must slow down/ <i>Mas señales de límite de velocidad con radar para hacer que los conductores estén mas conscientes de que deben reducir la velocidad (2)</i></p> <p><u>Palm Avenue & 13th Street intersection:</u> [Votes 1]</p> <p>j. Extend the sidewalk to make it safer/ <i>Extender la banqueta para que sea más seguro (1)</i></p>  <p><u>Palm Avenue just east of 13th Street:</u> [Votes 1]</p> <p>k. Add a buffer zone to sidewalk on both sides of palm through the corridor/ <i>Agregar una zona de separación en la banqueta en ambos lados del corredor de la Palm Avenue (1)</i></p>	<p><u>Palm Avenue west of 7th Street:</u> <u>Street:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue west of 7th Street:</u></p> <p>i. Construction of new Eco Bikeway should resolve this issue/ <i>La construcción de la nueva Eco Bikeway debería resolver este problema</i></p> <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. This is CALTRANS right-of-way/ <i>Este derecho de vía es de CALTRANS.</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. CALTRANS right-of-way/ <i>Derecho de vía es de CALTRANS.</i></p>

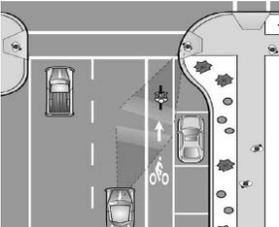
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue corridor:</u></p> <p>l. The median looks bad/ <i>Los camellones se ven mal</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. The pedestrian signal takes too long so pedestrians walk against the light & it's too short to get across/ <i>La señal peatonal toma mucho tiempo entonces los peatones caminan en contra de la luz</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. Not enough places to cross/ <i>No hay suficientes lugares para cruzar</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. Redo the median/ <i>Volver a hacer los camellones</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. Retime the lights, add the leading pedestrian interval & big crossings/ <i>Revisar los tiempos de los semáforos, agregar la señal avanzada para peatones cruces amplios</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. More crosswalks that are high visibility/ <i>Mas cruces peatonales que sean de alta visibilidad</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. Not sure the issue with the median. These are regularly maintained in a neat and trimmed condition/ <i>Inseguro sobre el problema con el camellón. Tienen mantenimiento de manera regular y están limpias y podadas.</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. This is a CALTRANS right of way. City has been working with CALTRANS to make improvements, although this is not a high priority for CALTRANS/ <i>Derecho de vía es de CALTRANS. La Ciudad ha trabajado con CALTRANS para hacer mejoras, pero esto no es de alta prioridad para CALTRANS.</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. This is a CALTRANS right of way and located in the City of San Diego. This is not something the City of Imperial Beach has any authority over/ <i>Derecho de vía de CALTRANS y ubicada en la Ciudad de San Diego. La Ciudad de Imperial Beach no tiene autoridad aquí.</i></p>

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<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. Sidewalks have no buffer, infrequent crosswalks not visible crosswalks/ <i>Las banquetas no tienen área de separación, cruces peatonales</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. No comment was provided by participating students/ <i>los estudiantes participantes no brindaron algún comentario</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. Eco Bikeway project construction will add cross walks a 5th Street but not other streets on Palm. The City is considering the addition of other cross walks in the future/ <i>La construcción del proyecto Eco Bikeway incluirá cruces peatonales en 5th Street pero no en otras calles de Palm Ave. La Ciudad está considerando agregar otros cruces peatonales en el futuro.</i></p>
Location/<i>Ubicación</i> Around Mar Vista H.S. (63 votes)			
<p><u>Parking in front of the school:</u></p> <p>a. Dangerous for bikers & skaters caused by conflicts w/ vehicle backing out of parking spaces/ <i>Peligroso para los ciclistas y los patinadores causado por conflictos con los vehículos que dan en reversa para salir del estacionamiento</i></p> 	<p><u>Parking in front of the school:</u> [Votes 36]</p> <p>a. Take out parking & add bike racks and benches in its place, maybe make a bus-loading zone instead/ <i>Quitar el estacionamiento y agregar en su lugar racas para bicicletas y bancas, tal vez en su lugar una zona para abordar y desbordar de los camiones (36)</i></p>	<p><u>Parking in front of the school:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Parking in front of the school:</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p>

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<p><u>Back gate of school:</u></p> <p>b. Cars and people going in and out through a gate with no sidewalks/ <i>Vehículos y gente entrando y saliendo por la puerta y no hay banquetas</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. Drivers enter, creep into crosswalk and leave no room for pedestrians/ <i>Los conductores entran sin dares cuenta al cruce peatonal y no dejan espacio para los peatones</i></p>  <p><u>Teachers lot in front of school:</u></p> <p>d. Conflicts with cars/ <i>Conflictos con los vehículos</i></p>	<p><u>Back gate of school:</u> [Votes 26]</p> <p>b. Wider gate, sidewalk created apart from vehicle entrance, more clear lanes/ <i>Puerta más ancha, banqueta que este separada de la entrada vehicular, líneas más claras (26)</i></p>  <p><u>Exit only area from back parking lot:</u> [Votes 1]</p> <p>c. Drop off/pick up solution educate parents/ <i>Soluciones para zona de abordar y desaboardar, educar los padres de familia (1)</i></p> <p><u>Teachers lot in front of school:</u></p> <p>d. Narrow the parking spaces/ <i>Hacer mas angostos los espacios de estacionamiento</i></p>	<p><u>Back gate of school:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Teachers lot in front of school:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Back gate of school:</u></p> <p>b. This is MVHS issue however, the City has engaged in discussions with school officials about making improvements to this area of the school/ <i>Este es un problema de MVHS sin embargo, la Ciudad se ha comprometido en discusiones con los oficiales de la escuela sobre el mejoramiento de esta área de la escuela.</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. This is a MVHS issue/ <i>Este es un problema de MVHS.</i></p> <p><u>Teachers lot in front of school:</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p>

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Location/Ubicación		Elm Avenue (34 votes)	
<p><u>Elm Avenue in front of school</u></p> <p>a. Driveways w/o markings, Narrow sidewalks north side of street heading west, rolled curbs north side heading west/ <i>Entradas vehiculares sin marcaciones, banquetas angosta en el lado sur de la calle en dirección oeste, en el lado norte las orillas de la banqueta están inclinadas mirando hacia el oeste</i></p>  <p><u>Elm Avenue east of school entrance</u></p> <p>b. Bushes are in the way, not enough room for everyone/ <i>Los arbustos obstruyen el camino, no hay suficiente espacio para todos</i></p>	<p><u>Elm Avenue in front of school:</u> [Votes 9]</p> <p>a. Sign/mark driveways, widen sidewalks, make curbs 90°/ <i>Señales y entradas vehiculares marcadas, banquetas más anchas, bordes de banquetas de 90° (9)</i></p> <p><u>Elm Avenue east of school entrance:</u> [Votes 8]</p> <p>b. Pave over the space used for bushes to make the sidewalk wider/ <i>Pavimentar el espacio utilizado para arbustos para que la banqueta este más ancha (7)</i></p>	<p><u>Elm Avenue in front of school (9)</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue east of school entrance:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue in front of school (9)</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p> <p><u>Elm Avenue east of school entrance:</u></p> <p>b. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán</i></p>

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<p>c. Plants get in the way of the sidewalk and are not covered (like tree grates) and people have been hurt/ <i>Las plantas se obstruyen la banqueta y no están cubiertas (como rejillas para arboles) y gente se ha lastimado</i></p>  <p>d. Parked cars on street block the view when crossing/ <i>Los vehículos estacionados en la calle obstruyen la visibilidad cuando [la gente] cruza</i></p> <p><u>Elm Avenue & 7th Street intersection</u></p> <p>e. Road is compact [narrow], sidewalk is cracked and broken, cars turn the corner quickly/ <i>Vialidades compactas, banquetas rotas y con fisuras, los vehículos dan vueltas muy rápidas en las esquinas.</i></p>	<p>c. Plant grass where the bushes are, but make it narrower to leave room for pedestrians/ <i>Plantar césped en los lugares donde hay arbustos, pero hacerlo más angosto para permitir espacio para los peatones (1)</i></p> <p>d. Make it a no parking zone- paint the curb red/ <i>Hacer esta una zona de no estacionamiento – pintar los bordes de la banqueta color rojo</i></p> <p><u>Elm Avenue & 7th Street intersection:</u> [Votes 6]</p> <p>e. Buffer on sidewalk. Redo sidewalk. Curb extension to slow turning cars/ <i>Área de separación en la banqueta, volver a construir la banqueta, extensión en las esquinas para reducir la velocidad de los vehículos que dan vuelta (6)</i></p>	<p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue & 7th Street intersection:</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><i>las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p> <p>c. See b. above/ <i>Ver punto b. arriba</i></p> <p>d. See b. above/ <i>Ver punto b. arriba</i></p> <p><u>Elm Avenue & 7th Street intersection:</u></p> <p>e. Improvements have recently made at this intersection with the recent street overlay project/ <i>Recientemente se hicieron mejoras en esta intersección con el proyecto de recubrimiento de las calles</i></p>

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<p>Elm Avenue & 5th Street intersection:</p> <p>f. [On] north corners cars turn and cut really close to the sidewalk and due to cars parked on the road, pedestrians cannot see oncoming traffic/ <i>Las esquinas en el norte [de la intersección] , los carros dan vuelta y giran muy cerca a la banqueta y debido a que hay vehículos estacionados en la vialidad los peatones no pueden ver el trafico que se aproxima</i></p> <p>g. That intersection gets really crowded before and after school due to people trying to pick up and drop off students. The congestion causes cars to focus more on getting through to intersection than not hitting students/ <i>Esa intersección se congestión antes y después de escuela debido a la gente que intenta recoger y dejar a los estudiantes en la escuela, el congestionamiento vial causa que los vehículos se enfoquen mas en cómo salir de la intersección en lugar de evitar golpear a los estudiantes</i></p>	<p>Elm Avenue & 5th Street intersection: [Votes 3]</p> <p>f. Extend the sidewalks and corners to allow [for] better visibility/ <i>Extender las banquetas y las esquinas para permitir que haya mejor visibilidad (3)</i></p>  <p>g. Take out the grass area by the marquee and create pick up/drop off zone/ <i>Quitar el área de jardinería por el letrero de la escuela y crear un área para abordar y desaboardar pasajeros</i></p>	<p>Elm Avenue & 5th Street intersection:</p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Elm Avenue & 5th Street intersection:</p> <p>f. See b. above/ <i>Ver punto b. arriba</i></p> <p>g. See b. above/ <i>Ver punto b. arriba</i></p>

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<p>h. Trees cover signs/ <i>Los arboles obstruyen las señales</i></p> <p><u>Elm Avenue school corridor</u></p> <p>i. No space for bicyclist/ <i>No hay espacios para los ciclistas</i></p> <p>j. Parked cars block views when crossing/ <i>Vehículos estacionados obstruyen la visibilidad al cruzar.</i></p> <p><u>Elm Avenue west of school entrance at the small hill</u></p> <p>k. People come down hill fast, skateboarders skate in the middle of the street downhill/ <i>La gente va a altas velocidades en la subida, los skaters (patinadores) van a la mitad de la calle en la bajada</i></p> <p>l. Crossing is difficult for drivers to see/ <i>el cruce es muy difícil para que los conductores lo vean</i></p>	<p>h. Trim trees, tell the owners/ <i>Podar los arboles, decirle a los dueños</i></p> <p><u>Elm Avenue school corridor:</u> [Votes 3]</p> <p>i. Paint sharrows for increased safety of cyclists/ <i>Pintar flechas que indiquen carril compartido (de ciclistas y vehículos) para incrementar la seguridad de los ciclistas (3)</i></p> <p>j. Curb extension for better visibility/ <i>Extensiones en las esquinas para mejor visibilidad</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u> [Votes 3]</p> <p>k. Infrastructure to slow vehicles coming downhill/ <i>Infraestructura para reducir la velocidad de los vehículos que van de bajada (1)</i></p> <p>l. Add lights in the crosswalk to warn drivers that pedestrians are crossing/ <i>Agregar alumbrado en el cruce peatonal para advertir a los conductores de que hay peatones cruzando</i></p>	<p>h. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue school corridor:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>j. See h. above / <i>Ver punto h. arriba</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u></p> <p>k. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>l. See h. above / <i>Ver punto h. arriba</i></p>	<p>h. City will investigate and take corrective action where possible/ <i>La Ciudad investigara y tomara medidas correctivas cuando sea posible.</i></p> <p><u>Elm Avenue school corridor:</u></p> <p>i. See b. above/ <i>Ver punto b. arriba</i></p> <p>j. See b. above/ <i>Ver punto b. arriba</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u></p> <p>k. See b. above/ <i>Ver punto b. arriba</i></p> <p>l. See b. above/ <i>Ver punto b. arriba</i></p>

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<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. In the bushes there is trash & the sidewalk. The sidewalk is also too narrow/ <i>Hay basura en los arbustos y en las banquetas. La banquetta también está muy angosta</i></p> 	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>[Votes 2]</p> <p>m. Put trash cans along sidewalk where bushes are located and extend the sidewalk to make it easier to walk/ <i>Poner botes de basura sobre la banquetta en donde los arbustos están ubicados extender la banquetta para que sea más fácil caminar (2)</i></p>	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. See b. above/ <i>Ver punto b. arriba</i></p>
<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. Road is too narrow. Parking on both sides of the street reduces space for bicyclist & creates conflicts/ <i>La calle es muy angosta, estacionamiento en ambos lados de la calle reducen el espacio para los ciclistas y se crean conflictos</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>[Votes 1]</p> <p>n. Prohibit [parking] (on school side) on south side of Elm & include a dedicated bike lane class 2/ <i>Prohibir [el estacionamiento](en el lado de la escuela) al lado sur de Elm Avenue e incluir un carril para ciclistas clase 2 (1)</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. See b. above/ <i>Ver punto b. arriba</i></p>
<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. No stop sign for pedestrians; cars – pedestrians conflict/ <i>No hay señal de alto para los peatones – conflicto entre peatones y vehículos</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>[Votes 1]</p> <p>o. Install stop signs/ <i>Instalar señales de alto(1)</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. See b. above/ <i>Ver punto b. arriba</i></p>

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<p>Elm Avenue:</p> <p>p. Crosswalks aren't visible enough/ <i>Los cruces peatonales no son lo suficientemente visibles</i></p>	<p>Elm Avenue: [Votes 1]</p> <p>p. Lighted crosswalks / <i>Cruces peatonales alumbrados (1)</i></p>	<p>Elm Avenue:</p> <p>p. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Elm Avenue:</p> <p>p. See b. above/ <i>Ver punto b. arriba</i></p>
<p>Location/Ubicación</p>		<p>Throughout city of Imperial Beach (21 votes)</p>	
<p>Throughout City of Imperial Beach:</p> <p>a. It's too dark, cars can't see the pedestrians/ <i>Es muy oscuro, los vehículos no pueden ver a los peatones</i></p> <p>b. Vehicles going fast and not respecting pedestrians even on minor streets/ <i>Vehículos van a altas velocidades y no respetan a los peatones aun en calles menores</i></p> <p>c. Can't see the lane dividers and lane markings/ <i>No se pueden ver las líneas que dividen los carriles en el pavimento</i></p>	<p>Throughout City of Imperial Beach: [Votes 18]</p> <p>a. Human scale lighting/ <i>Alumbrado a escala humana (18)</i></p> <p>b. Install traffic calming elements/ <i>Instalar elementos para reducir las velocidades</i></p>  <p>c. Repaint the lanes throughout the City/ <i>Volver a pintar las líneas en toda la Ciudad</i></p>	<p>Throughout City of Imperial Beach</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>b. See h. above / <i>Ver punto h. arriba</i></p> <p>c. See h. above / <i>Ver punto h. arriba</i></p>	<p>Throughout City of Imperial Beach</p> <p>a. This will require a vote of the residents/owners to create a lighting assessment district/ <i>Esto requerirá un voto de los residentes/propietarios para crear un distrito donde se les cobre el alumbrado</i></p> <p>b. Traffic calming is an ongoing effort throughout the City/ <i>La reducción de velocidades es un esfuerzo alrededor de la Ciudad.</i></p> <p>c. The Public Works Department restripes all pavement markings annually/ <i>El Departamento de Obras Publicas hace marcaciones en el pavimento de manera anual.</i></p>

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<p>Major Roads:</p> <p>d. High [number of] accidents [at] intersections/ <i>Intersecciones con alto [numero de] accidentes</i></p> <p>Through City's traffic light:</p> <p>e. No countdown pedestrian signals/ <i>No hay semaforización peatonal con cuenta regresiva</i></p>	<p>Major Roads: [Votes 2]</p> <p>d. Place speed feedback trailers and actually ticket drivers/ <i>Poner tráiler con radares de velocidad y multar a conductores (2)</i></p> <p>Through City's traffic light: [Votes 1]</p> <p>e. Countdown pedestrians signals/ <i>Semáforos peatonales con cuenta regresiva (1)</i></p>	<p>Major Roads:</p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>Through City's traffic light</p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Major Roads:</p> <p>d. Public Safety Dept. currently uses the speed trailer as often as possible. We will renew our efforts to enhance this program/ <i>El Departamento de Seguridad Pública actualmente utilice tráileres para medir la velocidad tanto como sea posible. Volveremos esforzarnos para mejorar este programa.</i></p> <p>Through City's traffic light</p> <p>e. The two intersections on I.B. Blvd. which the City owns does have the count-down pedestrian signals. The pedestrian signals on Palm Avenue/S.R. 75 belong to CALTRANS. The City as encouraged CALTRANS to install count-down lights and will continue to do so/ <i>Las dos intersecciones en I.B. Blvd. que son propiedad de la Ciudad cuentan con contadores en los semáforos peatonales. Los semáforos peatonales en Palm Avenue/S.R. 75 pertenecen a CALTRANS. La Ciudad ha pedido a CALTRANS que instales contadores peatonales en los semáforos y continuara haciéndolo.</i></p>

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<p><u>Throughout IB. Especially in front of the school:</u></p> <p>f. It is really dark, especially in winter when leaving school/ <i>Esta muy obscuro, especialmente en tiempo de invierno a la salida de la escuela</i></p> <p><u>Alleys throughout City</u></p> <p>g. Fences are all the way to the corner creating blind spots, bushes need to be trimmed/ <i>Las bardas llegan hasta la esquina creando espacios ciegos, los arbustos necesitan ser podados</i></p>	<p><u>Throughout IB. Especially in front of the school:</u></p> <p>f. Add human scaled lighting/ <i>Agregar más alumbrado a escala humana</i></p> <p><u>Alleys throughout City</u></p> <p>g. City to create and implement City rules to address this problem, property owners to trim trees and bushes, City to enforce it/ <i>Que la Ciudad cree e implemente reglamentos que solucionen este problema, los dueños de la propiedad que poden los arboles y los arbustos, que la Ciudad apliqué las reglas</i></p>	<p><u>Throughout IB. Especially in front of the school</u></p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Alleys throughout City</u></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Throughout IB. Especially in front of the school</u></p> <p>f. This will require a vote of the property owners to approve a lighting assessment district/ <i>Esto requerirá un voto de los residentes/propietarios para crear un distrito donde se les cobre el alumbrado</i></p> <p><u>Alleys throughout City</u></p> <p>g. The City will assist in this effort as time and resources are available/ <i>La Ciudad asistirá en este esfuerzo conforme haya tiempo y recursos disponibles.</i></p>

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Location/<i>Ubicación</i> 13th Street (10 votes)			
<p><u>13th Street between Imperial Beach Blvd. & Naval Base</u></p> <p>a. Visibility, cars driving too fast and don't see pedestrians crossing/ <i>Visibilidad, vehículos van muy rápido y no ven a los peatones cruzando</i></p> 	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u> [Votes 10]</p> <p>a. Install bulbouts at intersections, add speed radars so people know they are going fast/ <i>Instalar extensiones en las esquinas de la intersección, agregar radares de velocidad para que la gente sepa que van rápido (10)</i></p> 	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u></p> <p>a. Speeding will be referred to Public Safety. Bulb-outs may be considered during the next major Street improvement Project on 13th Street/ <i>Las velocidades se referirán a Seguridad Pública. Las extensiones en las esquinas podrían considerarse durante los siguientes proyectos en mejoras de infraestructura en 13th Street.</i></p>
Location/<i>Ubicación</i> 8th Street (5 votes)			
<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. No sidewalk/ <i>No hay banquetas</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u> [Votes 5]</p> <p>a. Install sidewalks/ <i>Instalar banquetas (5)</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. There is sidewalk in these blocks/ <i>Si hay banquetas en estas calles.</i></p>

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Location/Ubicación Florida Street (5 votes)			
<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. Visibility problems because cars park too close to the corner, visibility problems because it is hilly, very dark at night/ <i>Problemas de visibilidad ya que los vehículos se estacionan muy cerca de la esquina, problemas de visibilidad porque hay subidas, muy oscuro en la noche</i></p> 	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u> [Votes 5]</p> <p>a. Paint red zone areas close to corner, curb extensions, install human scale lights/ <i>Pintar áreas con zona roja cerca de la esquina, extensiones en las esquinas, instalar alumbrado a escala humana (5)</i></p> 	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. These ideas may be considered during the next major street improvement on Florida Street/ <i>Estas ideas podrían considerarse durante las siguientes mejora de infraestructura en Florida Street.</i></p>
Location/Ubicación Encina Avenue (5 votes)			
<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. Narrow sidewalk obstructed by power pole and overgrown bushes from properties/ <i>Banquetas angostas obstruidas por el poste de la luz y por vegetación sobrecrecida desde las propiedades</i></p>	<p><u>Encina Avenue east of 7th Street:</u> [Votes 3]</p> <p>a. Remove pole, city to request property owners to trim bushes/ <i>Remover el poste, que la ciudad solicite a los dueños de la propiedad que pode el árbol (3)</i></p>	<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. Sidewalk on Encina is only on the south side of the street and that sidewalk is already 8-foot wide in most places. We will refer the bush interference to Code Compliance Division/ <i>Solo hay banqueta en la parte sur de Encina y esa banqueta es de 8 pies de ancho en la mayor parte. Se referirá la interferencia de los arbustos a la División de Aplicación de los Códigos.</i></p>

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<p><u>Encina Avenue between 7th & 8th Streets:</u></p> <p>b. Inclined hill, cars can't see pedestrians/ <i>Pendiente inclinada, los conductores no pueden ver a los peatones</i></p>  <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Too narrow, fence blocks pedestrians, hard to walk/ <i>Muy angostas, la cerca/barda obstruye a los peatones, es difícil caminar</i></p>	<p><u>Encina Avenue between 7th & 8th Streets:</u> [Votes 2]</p> <p>b. Slow down signs, lights & warning signs/ <i>Señales de reducir la velocidad, alumbrado y señales de advertencia. (2)</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Make more space for pedestrians walking near the park/ <i>Hacer más espacio para peatones caminando cerca del parque</i></p>	<p><u>Encino Avenue between 7th & 8th Streets:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Encino Avenue between 7th & 8th Streets:</u></p> <p>b. Will refer this to Traffic Engineer for analysis / study when funds are available/ <i>Se referirá esto a Ingeniería de Transito para análisis/estudio cuando haya fondos disponibles.</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Will study this when funds are available/ <i>Se hará un estudio cuando haya fondos disponibles.</i></p>

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Location/Ubicación	5th Street (2 votes)		
<u>5th Street between Elm Avenue & Palm Avenue:</u> a. When it rains it gets flooded and students have to walk on the street/ <i>Cuando llueve se inunda y los estudiantes tienen que caminar en la calle</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> [Votes 2] a. Raise sidewalks higher, install safer and more efficient drainage, install median/ <i>Elevar las banquetas, instalación de drenaje más seguro y eficiente, instalación de un camellón (2)</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> a. Flooding is a challenge in Imperial Beach due to the low, flat elevation throughout. Raising sidewalks is generally not a good solution since that will tend to trap water on private property rather than let it drain off the property/ <i>Las inundaciones son un reto en Imperial Beach debido a la baja elevación y a que esta plano. Elevar las banquetas regularmente no es una Buena solución ya que ocasionaría que se estancara el agua en propiedades privadas en vez de que se vaya al drenaje de la propiedad.</i>
Location/Ubicación	Fern Avenue (2 votes)		
<u>Fern Avenue & 11th Street intersection:</u> a. A street light is messed up [not working]/ <i>Una luz del alumbrado público no sirve</i>	<u>Fern Avenue & 11th Street intersection:</u> [Votes 2] a. Fix it/ <i>Arreglarla (2)</i>	<u>Fern Avenue & 11th Street intersection:</u> a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i>	<u>Fern Avenue & 11th Street intersection:</u> a. City will notify SDG&E for repair/ <i>La Ciudad notificara a SDG&E para que la reparen.</i>

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Location/Ubicación (1 vote)			
<p><u>Seacoast Drive Corridor:</u></p> <p>a. Sidewalks are broken, street is crowded, people jaywalk, it's hard to get across/ <i>Las banquetas están rotas, las calles están llenas, gente cruza entre las calles, es difícil cruzar</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. The crossing is a yield sign, no stop sign, so it's hard for pedestrians to cross/ <i>El cruce es solo una señal de ceder el paso, no hay señales de alto por lo que es difícil que los peatones crucen</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p style="text-align: right;">[Votes 1]</p> <p>a. Make better connections, more frequent crossings, better sidewalks/ <i>Hacer mejores conexiones, cruces más frecuentes, mejores banquetas (1)</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. Make it a stop sign instead so pedestrians can cross easier/ <i>Mejor poner una señal de alto para que los peatones puedan cruzar más fácilmente</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p>a. Seacoast Drive has recently been rebuilt making the area more walkable/ <i>Seacoast Drive recientemente fue reconstruida para hacerla mas caminable</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. This is a 4-way stop intersection/ <i>Esta es una intersección con señales de alto en 4 sentidos.</i></p>
Location/Ubicación (0 votes)			
<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. When it rains it gets flooded and students have to walk on the street/ <i>Cuando llueve se inunda y los estudiantes tienen que caminar en la calle</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. Raise sidewalks higher, install safer and more efficient drainage, install median/ <i>Elevar las banquetas, instalación de drenaje más seguro y eficiente, instalación de un camellón</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. The City is at a low elevation and flat. Flooding is a problem, however raising sidewalk will potentially create a drainage problem from adjacent private properties/ <i>La Ciudad está a una elevación baja y plana. Las inundaciones son un problema, el elevar las banquetas podrían crear un problema en las propiedades adyacentes.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/Ubicación 10th Street (0 votes)			
<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. Parking lot doesn't have enough space for vehicles to be able to get in and out without conflict, visibility problems/ <i>El lote del estacionamiento no cuenta con suficiente espacio para que los vehículos puedan ingresar y salir sin que haya conflictos, problemas de visibilidad</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. City to implement better land use/ <i>Que la ciudad implemente mejores usos de suelo</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. This is all private property and does not belong to the City / <i>Es propiedad privada y no pertenece a la Ciudad.</i></p>

Locations outside City of Imperial Beach/ Ubicación fuera de la Ciudad de Imperial Beach:

Location/Ubicación	Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Tocayo Ave & Oro Villa Vista (Not in City of Imperial Beach)	<p>We need more lights, colorful plants & stores in case people are starving for more nutrients, also in the middle of the intersection at Oro Villa Vista [need] more crosswalks for people to walk with greater ease and more parks/ <i>Necesitamos más luces, plantas coloridas y mas tiendas en caso de que la gente este en busca de alimentos, además a mitad de la intersección de Oro Vista [poner] mas cruces peatonales para que la gente camine con más facilidad</i></p>	<p>Basically for people with slight focus of seeing and for people who need physical fitness/ <i>Básicamente para gente con visión ligeramente enfocada y para la gente que necesita ejercicio físico</i></p>	<p>Not City of Imperial Beach Jurisdiction/ <i>No está dentro de la jurisdicción de la Ciudad de Imperial Beach</i></p>

For more information please contact / Para más información, por favor comuníquese con:

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ONEONTA ELEMENTARY SCHOOL NEIGHBORHOOD/ *VECINDARIO DE LA ESCUELA ONEONTA*
Pedestrian & Bicyclist Issues/ *Temas de Peatones y Ciclistas*

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 4 residents, Sheriff Department staff and Public Works Department staff at Oneonta Elementary School located at 1311 10th Street, Imperial Beach, CA 91932 on May 26th, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Oneonta Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school. In addition, WalkSanDiego conducted a workshop with 6 parents and a Sheriff Department CSO at Oneonta Elementary School on June 15th, 2011. On October 31st and on November 4th, during the Halloween Parade and during Movie Night respectively, WalkSanDiego conducted additional community input efforts where 21 parents and 11 parents respectively provided additional input and prioritized the issues that they considered the most important.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 4 residentes y personal del departamento del Sheriff y personal del departamento de obras públicas en la Escuela Primaria Oneonta ubicada en 1311 10th Street, Imperial Beach, CA 91932 el 26 de Mayo del 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Oneonta (definido por la frontera escolar de asistencia), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela. Además, WalkSanDiego realizo un taller adicional con 6 residentes de la comunidad y un Oficial del Departamento del Sheriff en la Escuela Primaria Oneonta el 15 de Junio de 2011. El 31 de Octubre y el 4 de Noviembre durante el Desfile de Halloween y durante la Noche de Película respectivamente, WalkSanDiego realizó un esfuerzo de participación comunitaria en donde 21 y 11 padres de familia respectivamente brindaron su opinión y priorizaron los problemas que ellos consideran importante.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents*, thus determining level of priority):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Oneonta E.S. Comments/ <i>Comentarios de la Escuela Oneonta</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/ <i>Ubicación</i>	13th Street (42 votes)		
<u>13th Street & Grove Avenue intersection:</u> a. There is a crosswalk and when kids cross, vehicles do no respect them (high traffic) mainly Navy people/ <i>Hay un cruce peatonal y cuando los niños cruzan los vehículos no los respetan (mucho tráfico) principalmente gente de la Navy</i>	<u>13th Street & Grove Avenue intersection:</u> [Votes 22] a. Put a "stop sign" with a red flashing light included, put in-pavement flashing lights in crosswalk (people activated) with an electronic pedestrian crossing sign / <i>Poner una "señal de alto" con luz roja parpadeante incluida, poner luces parpadeantes en el pavimento del cruce peatonal (que se activen por la gente) con una señal electrónica de cruce de peatones</i> (3 + 9+ 2)	<u>13th Street & Grove Avenue intersection:</u> a. Strongly Support/ <i>Lo apoyo considerablemente</i>	<u>13th Street & Grove Avenue intersection:</u> a. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de transito</i>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Oneonta E.S. Comments/ Comentarios de la Escuela Oneonta	City's Comments/ Comentarios de la Ciudad
<p>b. No safe place to cross/ <i>No hay lugares seguros para cruzar</i></p>  <p>c. No crosswalks/ <i>No hay cruces peatonales</i></p> <p><u>13th Street & Holly Avenue Intersection:</u></p> <p>d. There is a crosswalk and when kids cross vehicles do not respect them (high traffic) mainly Navy people/ <i>Hay un cruce peatonal y cuando los niños cruzan los vehículos no los respetan (mucho tráfico) principalmente gente de la Navy</i></p> <p>e. No crosswalk, speeding cars during school pick up time (2:55) and lots of cars/ <i>No hay cruces peatonales, carros a altas velocidades durante la hora de la salida escolar (2:55) y hay muchos carros</i></p>  <p><u>13th Street & Fern Avenue:</u></p> <p>f. No crosswalk/ <i>No hay cruce peatonal</i></p>	<p>b. HAWK signal, in ground flashers, high visibility crosswalks/ <i>[Poner] una señal HAWK, luces parpadeantes en el piso, cruces peatonales de alta visibilidad (2+5+0)</i></p> <p>c. Add high visibility crosswalks/ <i>Agregar cruces peatonales de alta visibilidad (1+0+0)</i></p> <p><u>13th Street & Holly Avenue Intersection:</u> [Votes 19]</p> <p>d. Put a "stop sign" with a red flashing light included, put in-pavement flashing lights in crosswalk (people activated) with an electronic pedestrian crossing sign / <i>Poner una "señal de alto" con luz roja parpadeante incluida, poner luces parpadeantes en el pavimento del cruce peatonal (que se activen por la gente) con una señal electrónica de cruce de peatones(5 +1+2)</i></p> <p>e. [Install] high visibility crosswalks, stop sign to make it a 4 way stop [intersection], signs to lower speed limit during school drop-off and pick up time/ <i>[Instalar] cruces peatonales de alta visibilidad, señal de alto para hacer [esta intersección] de 4 altos, señales para reducir las velocidades escolares durante horarios de entrada y salida de la escuela</i></p>  <p><u>13th Street & Fern Avenue:</u> [Votes 1]</p> <p>f. Add a high visibility crosswalk/ <i>Agregar un cruce peatonal de alta visibilidad (0+1+0)</i></p>	<p>b. Support/ <i>Lo apoyo</i></p> <p>c. Support/ <i>Lo apoyo</i></p> <p><u>13th Street & Holly Avenue Intersection:</u></p> <p>d. Support/ <i>Lo apoyo</i></p> <p>e. Strongly Support/ <i>Lo apoyo considerablemente</i></p> <p><u>13th Street & Fern Avenue:</u></p> <p>f. Do not support/ <i>No lo apoyo</i></p>	<p>b. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p>c. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p><u>13th Street & Holly Avenue Intersection:</u></p> <p>d. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p>e. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p><u>13th Street & Fern Avenue:</u></p> <p>f. Concur with Principal/ <i>Coincido con el director</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Oneonta E.S. Comments/ <i>Comentarios de la Escuela Oneonta</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/ <i>Ubicación</i>		Imperial Beach Boulevard (30 votes)	
<p><u>Imperial Beach Blvd & 13th Street intersection: **</u></p> <p>a. Vehicles driving on Imperial Beach Boulevard east and westbound turning right, turn very fast and there are high volume of pedestrians, but drivers still don't respect pedestrians on the crosswalk/ <i>Los vehículos que se conducen en Imperial Beach Boulevard en sentido este y oeste que dan vuelta a la derecha, dan la vuelta muy rápido y hay altos números de peatones, pero aun así, los conductores no respetan a los peatones en el cruce peatonal</i></p>  <p><u>Imperial Beach Boulevard & Georgia Street:</u></p> <p>b. Oncoming traffic east to west is too fast, pedestrians have to rush across because stop lights are too far down/ <i>El trafico que se aproxima de este a oeste va muy rápido y los peatones deber apresurarse a cruzar por que el próximo semáforo está muy separado</i></p> <p><u>Imperial Beach Boulevard:</u></p> <p>c. Cars go very fast and people on sidewalk are walking very close to vehicles, Many bicyclists on sidewalk create conflicts between pedestrians and bicyclists/ <i>Los vehículos van muy rápido y la gente en la banqueta caminan muy cerca de los vehículos, muchos ciclistas sobre la banqueta crean conflictos entre peatones y ciclistas</i></p>	<p><u>Imperial Beach Boulevard & 13th Street intersection: **</u></p> <p>[Votes 20]</p> <p>a. Install curb extensions, put “no turn on right” signs/ <i>Instalar extensiones en las esquinas, poner señales que indiquen no dar vuelta a la derecha cuando el semáforo este en rojo (6 + 12 + 2)</i></p>  <p><u>Imperial Beach Boulevard & Georgia Street:</u></p> <p>[Votes 6]</p> <p>b. [Install] stop light, [Install] high visibility crosswalk/ <i>[Poner] semáforo, [poner] cruce peatonal de alta visibilidad(2+4+0)</i></p> <p><u>Imperial Beach Boulevard:</u></p> <p>[Votes 4]</p> <p>c. Install a buffer zone on sidewalk to separate pedestrians from vehicles, install a bicycle lane/ <i>Poner una zona de separación [con zacate] en la banqueta para separar a los peatones de los vehículos, poner un carril ciclista (4+0+0)</i></p> 	<p><u>Imperial Beach Boulevard & 13th Street intersection: **</u></p> <p>a. Strongly Support/ <i>Lo apoyo considerablemente</i></p> <p><u>Imperial Beach Boulevard & Georgia Street :</u></p> <p>b. Support/ <i>Lo apoyo</i></p> <p><u>Imperial Beach Boulevard:</u></p> <p>c. Support/ <i>Lo apoyo</i></p>	<p><u>I Imperial Beach Boulevard & 13th Street intersection: **</u></p> <p>a. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de transito</i></p> <p><u>Imperial Beach Boulevard & Georgia Street :</u></p> <p>b. Do not support. The nearest traffic signal is only one block west/ <i>No se apoya. El semáforo mas cercano esta solamente a una cuadra al oeste.</i></p> <p><u>Imperial Beach Boulevard:</u></p> <p>c. Unfortunately there is insufficient right-of-way along this street to create the parkway/ <i>Desafortunadamente no hay suficiente derecho de vía en esta calle para crear esta área de jardinería.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Oneonta E.S. Comments/ <i>Comentarios de la Escuela Oneonta</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/ <i>Ubicación</i> Grove Avenue & Essex St. and Emory St intersections, Fern Avenue & Essex St and Emory St intersections (23 votes)			
<p><u>Grove Avenue & Essex Street, Grove Avenue & Emory Street, Fern Avenue & Essex Street and Fern Avenue & Emory Street intersections:</u></p> <p>a. Speeding through intersections/ <i>Altas velocidades en las intersecciones</i></p>  <p><u>Essex & Grove intersection:</u></p> <p>b. During drop-off and pick up [time] there are high volume of traffic and many cars do not allow pedestrians to cross Essex Street/ <i>Durante [horarios de] entrada y salida hay altos volúmenes de tráfico vehicular y muchos carros no permiten que los peatones crucen la calle Essex</i></p>	<p><u>Grove Avenue & Essex Street, Grove Avenue & Emory Street, Fern Avenue & Essex Street and Fern Avenue & Emory Street intersections:</u></p> <p style="text-align: right;">[Votes 14]</p> <p>a. Install stop signs and curb, crosswalks and stop bars markings/ <i>Instalar señales de alto y marcar los bordes de las banquetas, los cruces peatonales y las barras de alto (3+11+0)</i></p> <p><u>Essex & Grove intersection:</u></p> <p style="text-align: right;">[Votes9]</p> <p>b. Put a stop sign with a stop bar, put a high visibility crosswalk/ <i>Poner una señal de alto con una barra de alto, poner un cruce peatonal de alta visibilidad (5+4+0)</i></p>	<p><u>Grove Avenue & Essex Street, Grove Avenue & Emory Street, Fern Avenue & Essex Street and Fern Avenue & Emory Street intersections:</u></p> <p>a. Strongly Support/ <i>Lo apoyo considerablemente</i></p> <p><u>Essex & Grove intersection:</u></p> <p>b. Strongly Support/ <i>Lo apoyo considerablemente</i></p>	<p><u>Grove Avenue & Essex Street, Grove Avenue & Emory Street, Fern Avenue & Essex Street and Fern Avenue & Emory Street intersections:</u></p> <p>a. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p><u>Essex & Grove intersection:</u></p> <p>b. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p>
Location/ <i>Ubicación</i> Holly Avenue (13 votes)			
<p><u>Holly Avenue between 9th & 11th Streets:</u></p> <p>a. Darkness discourages people from walking school events are in the afternoon (evening)/ <i>La oscuridad desmotiva a que la gente camine a eventos de la escuela cuando son por la tarde (al anochecer)</i></p>	<p><u>Holly Avenue between 9th & 11th Streets:</u></p> <p style="text-align: right;">[Votes 13]</p> <p>a. [Install] human scale lighting/ <i>[Instalar] alumbrado público a escala humana (5+8+0)</i></p> 	<p><u>Holly Avenue between 9th & 11th Streets:</u></p> <p>a. Support/ <i>Lo apoyo</i></p>	<p><u>Holly Avenue between 9th & 11th Streets:</u></p> <p>City supports this effort, but will require a neighborhood assessment district to be established/ <i>La Ciudad apoya este esfuerzo, pero se requerirá que se establezca un distrito de tasación</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Oneonta E.S. Comments/ <i>Comentarios de la Escuela Oneonta</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/ <i>Ubicación</i>		Grove Avenue (9 votes)	
<p>Grove Avenue & 11th Street intersection:</p> <p>a. There is a back entrance and many kids have to cross this intersection but there are no crosswalks/ <i>Hay una salida/entrada trasera y muchos niños tienen que cruzar esta intersección pero no hay cruces peatonales</i></p> <p>Grove Avenue & 9th Street intersection:</p> <p>b. No safe place to cross/ <i>No hay lugares seguros para cruzar</i></p> 	<p>Grove Avenue & 11th Street intersection: [Votes 7]</p> <p>a. Install high visibility “school zone” crosswalks, install school zone signs/ <i>Poner cruces peatonales de alta visibilidad en “zona escolar”, poner señales de zona escolar (3+4+0)</i></p> <p>Grove Avenue & 9th Street intersection: [Votes 2]</p> <p>b. Install a center island (drawing on flip chart paper notes)/ <i>Instala un camellón central (hay un dibujo en el papel donde se tomaron las notas) (2+0+0)</i></p>	<p>Grove Avenue & 11th Street intersection:</p> <p>a. Strongly Support/ <i>Lo apoyo considerablemente</i></p> <p>Grove Avenue & 9th Street intersection:</p> <p>b. Strongly Support <i>Lo apoyo considerablemente</i></p>	<p>Grove Avenue & 11th Street intersection:</p> <p>a. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p> <p>Grove Avenue & 9th Street intersection:</p> <p>b. Refer to Traffic Engineer Consultant/ <i>Referir al consultor en ingeniería de tránsito</i></p>
Location/ <i>Ubicación</i>		Around Oneonta Elementary School (4 votes)	
<p>Out front of School and City wide:</p> <p>a. Parking blocking ADA ramps/ <i>[Vehículos] estacionados bloquean las rampas de acceso peatonal</i></p>	<p>Out front of School and City wide: [Votes 4]</p> <p>a. [Paint] red curb (also creates revenue for the City) vehicle code 22522/ <i>[Pintar] el borde de la banqueta roja (también crea ingresos económicos para la Ciudad) código vehicular 22522 (2+2+0)</i></p>	<p>Out front of School and City wide:</p> <p>a. Mildly support/ <i>Lo apoyo ligeramente</i></p>	<p>Out front of School and City wide:</p> <p>a. Maintenance cost to the City for this effort is not an efficient use of funds and time/ <i>El costo de mantenimiento para que la Ciudad realice esta acción no es un uso eficiente de fondos y de tiempo</i></p>
Location/ <i>Ubicación</i>		9th Street (2 votes)	
<p>9th Street South of Imperial Beach Boulevard:</p> <p>a. Road too wide to cross safely/ <i>La vialidad está muy ancha para que se pueda cruzar de manera segura</i></p>	<p>9th Street south of Imperial Beach Boulevard: [Votes 2]</p> <p>a. “Road Diet” 1 northbound lane, 1 southbound lane, a turn lane on 9th Street, and bike lanes on both ends of 9th Street/ <i>“Dieta de las Calles” 1 carril al norte, 1 carril al sur, un carril para dar vuelta en la 9th Street y carriles para bicicletas en ambos lados de 9th Street (0+2+0)</i></p>	<p>9th Street south of Imperial Beach Boulevard:</p> <p>a. Do not support/ <i>No lo apoyo</i></p>	<p>9th Street south of Imperial Beach Boulevard:</p> <p>a. This intersection was modified with traffic calming pop-outs narrowing the street crossings, plus this is a signalized intersection already/ <i>Esta intersección fue modificada con extensión en las esquinas para reducir el cruce, además la intersección ya está señalizada</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Oneonta E.S. Comments/ <i>Comentarios de la Escuela Oneonta</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/ <i>Ubicación</i>		Florida Street (0 votes)	
<p><u>Florida Street between Fern & Imperial Beach Boulevard:</u></p> <p>a. Very dark, lack of public lighting, at night people walk and if you look from the window you can't see anything/ <i>Muy oscuro, falta alumbrado público, en la noche la gente camina y si uno se asoma por la ventana no puede ver nada</i></p>	<p><u>Florida Street between fern & Imperial Beach Boulevard:</u> [Votes 0]</p> <p>a. Install (human scale) public lighting / <i>Instala alumbrado público (a escala humana) (0+0+0)</i></p> 	<p><u>Florida Street between fern & Imperial Beach Boulevard:</u></p> <p>a. Do not support/ <i>No lo apoyo</i></p>	<p><u>Florida Street between fern & Imperial Beach Boulevard:</u></p> <p>City supports this effort, but will require a neighborhood assessment district to be established/ <i>La Ciudad apoya este esfuerzo, pero se requerirá que se establezca un distrito de tasación</i></p>

*(a+b+c) a= votes gathered on the May 26 and the June 15 workshop/
b= votes gathered on December 31st at the Halloween Parade/
c= votes gathered on November 4th at the Movie Night Event/

Votos obtenidos en el taller del 26 de Mayo y del 15 de Junio
Votos obtenidos el 31 de Diciembre en el Desfile de Halloween
Votos obtenidos el 4 de Noviembre en el Evento de Noche de Película

** This location was also identified in the Central and the Mar Vista walkability reports.

For more information please contact/ Para más información, por favor comuníquese con:

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Imperial Beach: Let's Move Together!
¡Caminemos Juntos: Imperial Beach!

VIP VILLAGE PRESCHOOL SCHOOL NEIGHBORHOOD/ *VECINDARIO DE LA ESCUELA PREESCOLAR VIP VLLAGE*
Pedestrian & Bicyclist Issues/ *Temas de Peatones y Ciclistas*

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 25 residents and Public Works Department staff in two sessions at the VIP Village Preschool located at 1001 Fern Avenue, Imperial Beach, CA 91932 on October 21st, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding the VIP Village Preschool (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 25 residentes y personal del departamento de obras públicas en dos sesiones en la Escuela Pre-escolar VIP Village ubicada en 1001 Fern, Imperial Beach, CA 91932 el 21 de Octubre del 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Preescolar VIP Village (definido por la frontera escolar de asistencia), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	School Comments / Comentarios de la Escuela	City's Comments/ Comentarios de la Ciudad
Location/Ubicación:		Fern Avenue (21 votes)	
<p><u>Fern Avenue between 9th Street & 11th Street:</u></p> <p>a. Heavy traffic, lack of parking, unsafe for pedestrians/ <i>Mucho tráfico, falta de estacionamiento, inseguro para los peatones</i></p>  <p>b. Rolled curbs, cars park on sidewalk/ <i>Bordes de las banquetas con una pendiente, los vehículos se estacionan en las banquetas</i></p>	<p><u>Fern Avenue between 9th Street & 11th Street:</u> [Votes 6]</p> <p>a. Make street one way near the school/ <i>Convertir la calle en el área cerca de la escuela en un solo sentido (5)</i></p> <p>b. Make curbs 90 degree angle so cars cannot park on sidewalk/ <i>Hacer que los bordes de las banquetas sean de 90 grados para que los carros no se puedan estacionar en las banquetas(1)</i></p>	<p><u>Fern Avenue between 9th Street & 11th Street:</u></p> <p>a. One way would create chaos for parents. There are very vocal neighbors who would disapprove/ <i>Un solo sentido crearía caos con los padres de familia. Hay vecinos que se hacen oír y que lo desaprobaban.</i></p> <p>b. Parking on sidewalks would cause dangers to pedestrians with small children/ <i>Estacionamiento en la banqueta crearía peligro para los peatones con niños pequeños.</i></p>	<p><u>Fern Avenue between 9th Street & 11th Street:</u></p> <p>a-c/. We recommend that we initiate a school, community & City meeting to discuss these ideas (1.a – 1.c.). The City is willing to seek grant funds for such improvements as they are supported by the neighbors and school/ <i>Nosotros recomendamos que se inicie una reunión con la escuela, la comunidad y la Ciudad para tratar estas ideas (1a</i></p>

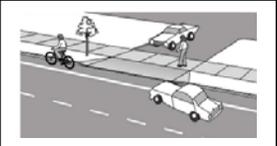
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	School Comments / Comentarios de la Escuela	City's Comments/ Comentarios de la Ciudad
<p>c. Utility poles in the way of the sidewalk/ <i>Postes utilitarios en la banqueta</i></p> <p><u>Fern Avenue between 9th Street & the VIP Village:</u></p> <p>d. Not enough school zone signage/ <i>No hay suficiente señalamiento de zona escolar</i></p>  <p><u>Fern Avenue – school sidewalk:</u></p> <p>e. [Sidewalk] is very reduced and creates problems to pedestrians / <i>[Banqueta] está muy reducida y crea problemas para los peatones</i></p> <p>f. Not enough space to stop and wait/ <i>No hay suficiente espacio para estacionarse y esperar</i></p> <p>g. Sidewalk with dirt on side/ <i>La banqueta tiene basura al lado</i></p> <p><u>Fern at block of the school:</u></p> <p>h. Cars park all day limits parking for parents (parents have to sign kids out so have to be there)/ <i>Los vehículos que se estacionan todo el día limitan el estacionamiento para los padres de estudiantes (los padres de estudiantes deben firmar para sacar a los hijos del salón de clase por lo que deben estar allí)</i></p>	<p>c. Underground utility poles/ <i>Postes utilitarios subterráneos</i></p> <p><u>Fern between 9th Street & the VIP Village:</u> [Votes 5]</p> <p>d. Add more school zone signs along Fern [Avenue]/ <i>Incorporar más señales de zona escolar sobre Fern Avenue (5)</i></p>  <p><u>Fern Avenue – school sidewalk:</u> [Votes 2]</p> <p>e. Wider sidewalks/ <i>Banquetas más amplias (2)</i></p> <p>f. On school property create a walking path by moving the fence/ <i>En la propiedad escolar crear un andador peatonal moviendo la reja</i></p> <p>g. Extend the sidewalk pavement/ <i>Extender el pavimento de la banqueta</i></p> <p><u>Fern at block of the school:</u> [Votes 2]</p> <p>h. Paint curb as loading zone 15 minutes during school hours for parents/ <i>Pintar el borde de la banqueta para zona de 15 minutos durante horario escolar para los padres de estudiantes (2)</i></p>	<p>c. Sounds great, but expensive/ <i>Suena muy bien, pero caro.</i></p> <p><u>Fern between 9th Street & the VIP Village:</u></p> <p>d. This would help. Painting bus zone towards back of school is badly needed! <i>Esto ayudaría. Es muy necesario pintar áreas de autobús en la parte trasera de la escuela.</i></p> <p><u>Fern Avenue – school sidewalk:</u></p> <p>e. This would create safer walking zones for parents and students. Would also increase safety as busses pull into bus zone/ <i>Esto crearía para los padres y estudiantes áreas más seguras para caminar. También aumentaría la seguridad conforme los camiones se acercan a la zona de autobús.</i></p> <p>f. As long as it doesn't take away from playground space/ <i>Siempre y cuando no se tome espacio del área de juego.</i></p> <p>g. This would be helpful for pedestrian traffic and cut down on animal fecal matter/ <i>Esto sería útil para el tráfico peatonal reduciría los desechos de animales.</i></p> <p><u>Fern at block of the school:</u></p> <p>h. This is very badly needed. Parents claim they didn't know it was no parking zone, because curbs are not painted/ <i>Esto sería muy necesario. Los padres de estudiantes dicen que ellos no sabían que es zona de no estacionarse por que las banquetas no están pintadas.</i></p>	<p>– 1c) <i>La Ciudad esta dispuesta a buscar financiamiento para dichas mejoras cuando esto sea apoyado por los vecinos y la escuela</i></p> <p><u>Fern between 9th Street & the VIP Village:</u></p> <p>d. City will have the Traffic Engineer consultant investigate and make a recommendation/ <i>La Ciudad pedirá al consultor de Ingeniería de Tránsito que investigue y haga una recomendación</i></p> <p><u>Fern Avenue – school sidewalk:</u></p> <p>e-g. We would recommend that this issue (items 1.e to 1.g.) be combined with item 1.a. above/ <i>Nosotros recomendamos que estos problemas (puntos 1e a 1g) se combinen con el punto 1a arriba</i></p> <p><u>Fern at block of the school:</u></p> <p>h. City will have the Traffic Engineer Consultant review the recommendation and comment accordingly/ <i>La Ciudad pedirá al consultor de Ingeniería de Tránsito que revise y haga las recomendaciones adecuadas.</i></p>

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<p><u>Fern Avenue & Emory Street intersection:</u></p> <p>i. No stop signs, no crosswalks/ <i>No hay señal de alto, no hay cruces peatonales</i></p> <p><u>Fern Avenue & Essex Street intersection:</u></p> <p>j. No stop signs, no crosswalks/ <i>No hay señal de alto, no hay cruces peatonales</i></p>  <p><u>Fern Avenue - Bus zone:</u></p> <p>k. Not enough signage, not painted curb/ <i>No hay suficiente señalamiento, el borde de la banqueta no esta pintado</i></p> <p><u>Fern Avenue & Florence Street intersection:</u></p> <p>l. Drivers do not respect stop signs/ <i>Los conductores no respetan las señales de alto</i></p>	<p><u>Fern Avenue & Emory Street intersection:</u> [Votes 2]</p> <p>i. Add stops, add crosswalks/ <i>Incorporar señales de alto, incorporar cruces peatonales (2)</i></p> <p><u>Fern Avenue & Essex Street intersection:</u> [Votes 2]</p> <p>j. Add stop signs, add crosswalks/ <i>Incorporar señales de alto, incorporar cruces peatonales (2)</i></p> <p><u>Fern Avenue -Bus zone:</u> [Votes 1]</p> <p>k. Add signs with Spanish, paint the curb/ <i>Incorporar mas señalamiento que se incluya en español, pintar el borde de la banqueta (1)</i></p> <p><u>Fern Avenue & Florence Street intersection:</u> [Votes 1]</p> <p>l. Put curb extensions, put red flashing lights [on stop sign]/ <i>Poner extensiones en las esquinas, poner luces rojas parpadeantes [en el alto] (1)</i></p>	<p><u>Fern Avenue & Emory Street intersection:</u></p> <p>i. This would help. Many parents park on street in that area and walk their child to school/ <i>Esto ayudaría. Muchos padres de estudiantes se estacionan en esa área de la calle y caminan con sus hijos a las escuelas.</i></p> <p><u>Fern Avenue & Essex Street intersection:</u></p> <p>j. See above comment / <i>Ver comentario anterior.</i></p> <p><u>Fern Avenue -Bus zone:</u></p> <p>k. Signage is sufficient, painting curb is needed/ <i>La señalización es suficiente, se necesita pintar los bordes de la banqueta</i></p> <p><u>Fern Avenue & Florence Street intersection:</u></p> <p>l. Sherriff has been working on this, by sending deputy out once a week during school year/ <i>El Sheriff ha estado trabajando en esto, al mandar a oficiales una vez a la semana durante el año escolar.</i></p>	<p><u>Fern Avenue & Emory Street intersection:</u></p> <p>i. City will have the Traffic Engineer Consultant review the recommendation and comment accordingly! <i>Ciudad pedirá al consultor de Ingeniería de Transito que revise y haga las recomendaciones adecuadas.</i></p> <p><u>Fern Avenue & Essex Street intersection:</u></p> <p>j. City will have the Traffic Engineer consultant review the recommendation and comment accordingly. <i>Ciudad pedirá al consultor de Ingeniería de Transito que revise y haga las recomendaciones adecuadas.</i></p> <p><u>Fern Avenue -Bus zone:</u></p> <p>k. City will have the Traffic Engineer consultant review the recommendation and comment accordingly. <i>Ciudad pedirá al consultor de Ingeniería de Transito que revise y haga las recomendaciones adecuadas.</i></p> <p><u>Fern Avenue & Florence Street intersection:</u></p> <p>l. City will continue with Public Safety enforcement as resources are available/ <i>La Ciudad continuara con la Aplicación de la Seguridad Pública conforme lo permitan los recursos</i></p>

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<p><u>Fern Avenue between 11th Street & Emory Street:</u></p> <p>m. Trees and bushes on the west corner of school parking lot on sidewalk block visibility , people sleep there at night leave trash, cars parked right next to the parking exit on the street block the visibility/ <i>Al oeste (de la) esquina del estacionamiento de la escuela en la banqueta los árboles y arbustos obstruyen la visibilidad, hay gente que vive allí en la noche que deja basura, vehículos estacionados en la calle justo al lado de la salida del estacionamiento obstruye la visibilidad</i></p>	<p><u>Fern Avenue between 11th Street & Emory Street:</u></p> <p>m. City to request property owner to trim trees and bushes, have police to remove homeless people from there, City to paint red curb on that edge/ <i>Que la Ciudad solicite al dueño de la propiedad que pade los árboles y arbustos, que la policía quite de allí a los indigentes, que la Ciudad pinte de rojo el borde de la banqueta en esa orilla</i></p>	<p><u>Fern Avenue between 11th Street & Emory Street:</u></p> <p>m. We have talked to property owner, who was unaware. Our custodian/landscapers have cut back vegetation./ <i>Hemos hablado con el propietario, el no se había percatado. Nuestros jardineros han cortado la vegetación</i></p>	<p><u>Fern Avenue between 11th Street & Emory Street:</u></p> <p>m. City concurs that this can be resolved without City involvement/ <i>La Ciudad está de acuerdo que esto se puede resolver sin que la Ciudad se involucre</i></p>
Location/Ubicación:		11th Street (15 votes)	
<p><u>11th Street & Fern Avenue intersection:</u></p> <p>a. Stop sign not respected/ <i>No se respeta la señal de alto</i></p>  <p>b. Cars park right at the corner on southwest corner blocking pedestrian and handicap ramp and blocking visibility to other drivers/ <i>Los vehículos se estacionan justo en la esquina suroeste bloqueando la rampa de acceso de peatones y para gente discapacitada y obstruyendo la visibilidad de otros conductores</i></p> <p>c. Vehicles erroneously park on the curb or use too much area blocking the traffic circulation/ <i>Los vehículos se estacionan mal o abarcan mucha área y obstruyen la circulación vehicular</i></p>	<p><u>11th Street & Fern Avenue intersection:</u> [Votes 8]</p> <p>a. Policeman or stop light or traffic person at the corner, less traffic on school ground/ <i>Policía o semáforo o persona [que controle] el tráfico en la esquina, menos tráfico en la escuela(5)</i></p> <p>b. Paint a red curb on the corner/ <i>Pintar el borde de la banqueta de rojo en la esquina (2)</i></p>  <p>c. Red [curb] paint to indicate the area allowed for parking/ <i>Pintar de rojo [el borde] de la banqueta para delimitar el área permitida para estacionamiento (1)</i></p>	<p><u>11th Street & Fern Avenue intersection:</u></p> <p>a. Sherriff's Dept. has been working on this/ <i>El Departamento del Sheriff ha estado trabajando en esto.</i></p> <p>b. See above comment/ <i>Ver el comentario anterior</i></p> <p>c. Still need enforcement to extinguish this practice/ <i>Todavía se necesita aplicación de medidas para anular estas practicas</i></p>	<p><u>11th Street & Fern Avenue intersection:</u></p> <p>a. City will continue with Public Safety enforcement as resources are available/ <i>La Ciudad continuara con la Aplicación de la Seguridad Pública conforme lo permitan los recursos</i></p> <p>b. City will ask Traffic Engineer consultant to review and comment/ <i>La Ciudad pedirá al consultor en Ingeniería de Tránsito que revise y comente</i></p> <p>c. City will use Public Safety enforcement as resources are available/ <i>La Ciudad continuara con la Aplicación de la Seguridad Pública conforme lo permitan los recursos</i></p>

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<p>11th Street & Holly Avenue intersection:</p> <p>d. Two way stop and difficult to cross [walking] on sides without stop sign/ <i>Señal de alto en dos sentidos y es difícil cruzar [caminando] en los lados que no tienen señal de alto</i></p> 	<p>11th Street & Holly Avenue intersection: [Votes 7]</p> <p>d. Put 4 way high visibility crosswalk because intersection is close to entrance to Oneonta Elementary School and VIP Village/ <i>Poner cruce de alta visibilidad en los cuatro sentidos por que la intersección esta muy cerca de la Escuela Primaria Oneonta y de VIP Village (7)</i></p>	<p>11th Street & Holly intersection:</p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>11th Street & Holly intersection:</p> <p>d. City will task Traffic Engineer consultant to review and comment/ <i>La Ciudad pedirá al consultor en Ingeniería de Transito que revise y comente</i></p>
Location/Ubicación:		Imperial Beach Boulevard (12 votes)	
<p>Imperial Beach Boulevard & 11th Street intersection:</p> <p>a. Stop [sign], no center line causes more accidents/ <i>Alto [señal], no hay carril central, se ocasionan más accidentes</i></p> 	<p>Imperial Beach Boulevard & 11th Street intersection: [Votes 12]</p> <p>a. Include a [center lane] to [allow cars] to go out/ <i>Incluir un carril para[perm itir] salir [a los carros] (12)</i></p> 	<p>Imperial Beach Boulevard & 11th Street intersection:</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Imperial Beach Boulevard & 11th Street intersection:</p> <p>a. City will task Traffic Engineer consultant to review and comment/ <i>La Ciudad pedirá al consultor en Ingeniería de Transito que revise y comente</i></p>
Location/Ubicación:		City of Imperial Beach (9 votes)	
<p>City of Imperial Beach</p> <p>a. Streets are very dark – in winter season streets are empty very early/ <i>Las calles están muy oscuras – en temporada de invierno las calles están vacías muy temprano</i></p>	<p>City of Imperial Beach: [Votes 3]</p> <p>a. More human scale lighting/ <i>Mas alumbrado público a escala humana (3)</i></p>	<p>City of Imperial Beach:</p> <p>a. Our students go to school until 4:10pm. Many ride the bus home. During the winter, some of those students are picked up when it's dark/ <i>Nuestros estudiantes van a la escuela hasta las 4:10pm. Muchos toman el autobús a casa. Durante el invierno, a algunos de esos estudiantes los recogen cuando esta oscuro.</i></p>	<p>City of Imperial Beach:</p> <p>a. Recommend that this issue be part of a neighborhood, school and City discussion as noted in 1.a. above/ <i>Recomendamos que este problema sea parte de la discusión con la comunidad, la escuela y la Ciudad a que se hace referencia en el punto 1a arriba</i></p>

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<p><u>All around the City</u></p> <p>b. Cars park too close to driveways and difficult & dangerous when vehicles are trying to get out to the street and can get hit/ <i>Los vehículos se estacionan muy cerca de las entradas vehiculares y es difícil y peligroso cuando los vehículos intentan salir a la calle y pueden golpearse</i></p>  <p><u>Many minor streets in the City</u></p> <p>c. Bicyclists ride on sidewalk because feel unsafe on street and sidewalks are narrow/ <i>Los ciclistas andan en bicicletas sobre la banqueta porque se sienten inseguros en la calle y las banquetas son estrechas</i></p> <p><u>Around City Schools</u></p> <p>d. Cars driving too fast/ <i>Vehículos manejados a altas velocidades</i></p>	<p><u>All around the City:</u> [Votes 3]</p> <p>b. Paint red curb zone close to driveways/ <i>Pintar los bordes de la banqueta roja cerca de las entradas vehiculares (3)</i></p>  <p><u>Many minor streets in the City:</u> [Votes 2]</p> <p>c. Put more class 1 and class 2 bicycle lanes [Juan explained what class 1 and 2 bike lanes are]/ <i>Poner más carriles ciclistas de clase 1 y 2 [Juan Ramirez explico lo que son los carriles ciclistas tipo 1 y 2] (2)</i></p> <p><u>Around City Schools:</u> [Votes 1]</p> <p>d. Install raised crosswalks close to school intersections/ <i>Instalar cruces peatonales elevados cerca de las intersecciones escolares (1)</i></p>	<p><u>All around the City:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Many minor streets in the City:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Around City Schools:</u></p> <p>d. We do have occasional speeders at arrival/dismissal. Raised crosswalk in front of school might help/ <i>Ocasionalmente tenemos carros a altas velocidades durante la entrada y salida.</i></p>	<p><u>All around the City:</u></p> <p>b. This is not an maintenance expense the City intends to take on/ <i>Este no es un gasto de mantenimiento que la Ciudad tenga la intención de tomar.</i></p> <p><u>Many minor streets in the City:</u></p> <p>c. The City's Bicycle Transportation Plan adopted in 2008 is being implemented as funds are available/ <i>El Plan de Transporte Ciclista de la Ciudad adoptado en el 2008 se esta implementando conforme hay fondos disponibles.</i></p> <p><u>Around City Schools:</u></p> <p>d. Recommend that this be part of the proposed neighborhood, school, City meeting discussion/ <i>Se recomienda que esta parte se proponga en la reunión con la comunidad, la escuela y la Ciudad.</i></p>

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Location/Ubicación: 9th Street (6 votes)			
<p>9th Street & Fern Avenue intersection:</p> <p>a. 4 lanes, no crosswalks, speeding, no school zone signs/ <i>4 carriles, no hay cruce peatonal, altas velocidades, no hay señales de zona escolar</i></p> 	<p>9th Street & Fern Avenue intersection: [Votes 6]</p> <p>a. Signs for school zone, high visibility elevated crosswalks on 9th Street/ <i>Señales de zona escolar, cruces elevados de alta visibilidad (6)</i></p>	<p>9th Street & Fern Avenue intersection:</p> <p>a. This impacts many of our students who walk with their parents or who park in that area and walk to VIP Village/ <i>Esto impacta a muchos de nuestros estudiantes que caminan con sus padres o quien se estacione en esa área y camine a VIP Village</i></p>	<p>9th Street & Fern Avenue intersection:</p> <p>a. The City Traffic Engineer consultant will be requested to comment and make recommendations/ <i>Se le pedirá al consultor en Ingeniería de Transito para que comente y haga recomendaciones</i></p>
Location/Ubicación: 13th Street (5 votes)			
<p>13th Street between Imperial Beach Boulevard & Naval Base:</p> <p>a. Few crosswalks but drivers do not respect pedestrians, no stop sign / <i>Pocos cruces peatonales pero los conductores no respetan a los peatones, no hay señales de alto</i></p> 	<p>13th Street between Imperial Beach Boulevard & Naval Base: [Votes 5]</p> <p>a. More signs identifying/indicating crosswalks, put stop signs with red flashing light on top/ <i>Mas señales identificando/indicando cruces peatonales, poner señales de alto con luces rojas parpadeantes arriba (5)</i></p> 	<p>13th Street between Imperial Beach Boulevard & Naval Base:</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>13th Street between Imperial Beach Boulevard & Naval Base:</p> <p>a. The City Traffic Engineer consultant will be requested to comment and make recommendations/ <i>Se le pedirá al consultor en Ingeniería de Transito para que comente y haga recomendaciones</i></p>
Location/Ubicación: Around School (4 votes)			
<p>Fern, Florence, 13th, etc:</p> <p>a. The drive way slopes on the sidewalks makes the circulation difficult for the people who walk with a stroller or people on wheelchair/ <i>La inclinación de las banquetas entorpecen la circulación para quien trae una carriola o conduce una silla de ruedas en las entradas de los vehículos en las casas</i></p>	<p>Fern, Florence, 13th, etc: [Votes 2]</p> <p>a. Leave a leveled circulation path between driveways and sidewalks/ <i>Dejar un carril de circulación del mismo nivel entre estas entradas y las banquetas (2)</i></p> 	<p>Fern, Florence, 13th, etc:</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Fern, Florence, 13th, etc:</p> <p>a. As properties are developed or redeveloped, it is City policy to have these driveways made ADA compliant/ <i>Conforme se desarrollan o redesarrollan las propiedades, es política de la Ciudad que las entradas</i></p>

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<p><u>In front of the school:</u></p> <p>b. No drop off-pick up parking/ <i>No hay [área] de estacionamiento para dejar o recoger [a los niños]</i></p> <p><u>Around VIP Village:</u></p> <p>c. Not enough school zone area [signs]/ <i>No hay suficientes señales de zona escolar</i></p>	<p><u>In front of the School:</u> [Votes 1]</p> <p>b. Put 3 minute drop off pick up parking/ <i>Poner un [área] de estacionamiento de 3 minutos para dejar o recoger a los niños (1)</i></p> <p><u>Around VIP Village:</u> [Votes 1]</p> <p>c. Put more school zone signage around/ <i>Poner más señales de zona escolar alrededor (1)</i></p>	<p><u>In front of the School:</u></p> <p>a. This would not work for us. Parents need to walk child to class and sign them in. 3 minute parking would create more chaos/ <i>Esto no funcionaria para nosotros. Los padres de familia necesitan encaminar a los niños a la clase para firmar la entrada. 3 minutos de estacionamiento crearía más caos.</i></p> <p><u>Around VIP Village:</u></p> <p>b. More signs would alert motorists to school zone, especially since school has 600 preschool age children attending/ <i>Mas señales alertarían a los conductores sobre la zona escolar, especialmente ya que hay 600 estudiantes de preescolar asistiendo a la escuela</i></p>	<p><i>vehiculares cumplan con ADA (Ley para los Discapacitados)</i></p> <p><u>In front of the School:</u></p> <p>b. Concur with School's comment/ <i>De acuerdo con el comentario de la escuela</i></p> <p><u>Around VIP Village:</u></p> <p>c. City will invite Traffic Engineer consultant to review and comment/ <i>Se invitará al consultor en Ingeniería de Tránsito a que revise y comente</i></p>

For more information please contact/ Para más información, por favor comuníquese con:

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Imperial Beach: Let's Move Together!
¡Caminemos Juntos: Imperial Beach!



WEST VIEW ELEMENTARY SCHOOL NEIGHBORHOOD/ VECINDARIO DE LA ESCUELA WEST VIEW
Pedestrian & Bicyclist Issues/ Temas de Peatones y Ciclistas

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 4 residents, Sheriff Department staff and Public Works Department staff at West View Elementary School located at 525 3rd Street, Imperial Beach, CA 91932 on October 19th, 2011 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding West View Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school. In addition, 32 parents provided additional input and prioritized the issues that they considered important during the Halloween Parade on October 31st.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con residentes y personal del departamento del Sheriff y personal del departamento de obras públicas en la Escuela West View ubicada en 525 525 3rd Street, Imperial Beach, CA 91932 el 19 de Octubre del 2011 para identificar temas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria West View (definido por la frontera escolar de asistencia), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela. Además, el 31 de Octubre durante el Festival de Halloween, 32 padres de familia opinaron y priorizaron los problemas que ellos consideran importante

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues. (Please note that the numbers in parenthesis indicate the number of votes cast by residents*, thus determining level of priority):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales. (Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	West View Comments / <i>Comentarios de la Escuela West View</i>	City's Comments / <i>Comentarios de la Ciudad</i>
1. Location/Ubicación:			
3rd Street (72 Votes)			
<p>3rd Street in front of West View Elementary:</p> <p>a. Distracted drivers and drivers using their cell phones/ <i>Conductores distraídos y conductores utilizando sus teléfonos celulares</i></p>  <p>b. Cars parking in bus zone/ <i>Vehículos estacionándose en zona del autobús escolar</i></p>	<p>3rd Street in front of West View Elementary:</p> <p style="text-align: right;">[38 Votes]</p> <p>a. Education campaign/ <i>Campaña educativa (10+1)</i></p> <p>b. [Paint] red curb zone/ <i>Pintar el borde de la banqueta en color rojo (6+4)</i></p>	<p>3rd Street in front of West View Elementary:</p> <p>a. I am in agreement of an education campaign for parents. <i>Estoy de acuerdo con una campana de educación para los padres de familia</i></p> <p>b. I would like to see a red zone painted in the bus zone area. <i>Me gustaría ver el borde de la banqueta pintado de rojo en el área del autobús</i></p>	<p>3rd Street in front of West View Elementary:</p> <p>a. City will collaborate with District in seeking funds for such education/ <i>La Ciudad colaborará con el Distrito para buscar financiamiento para tal educación</i></p> <p>b. City will investigate this with City Traffic Engineer Consultant/ <i>La Ciudad investigará esto con el Consultor de Ingeniería de Tránsito</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	West View Comments / Comentarios de la Escuela West View	City's Comments / Comentarios de la Ciudad
<p>c. Crosswalk is old and not [visible]/ <i>Cruce peatonal es viejo y no es visible</i></p> <p>d. People park for long time periods in the 3 minute parking zone/ <i>La gente se estaciona por largos periodos de tiempo en la zona de 3 minutos de estacionamiento</i></p>	<p>c. [Install a] raised crosswalk with flashing lights activated by pedestrians/ <i>Instalar cruce peatonal elevado con luces parpadeantes activadas por los peatones (6+3)</i></p> <p>d. More police enforcement/ <i>Mas aplicaci3n de medidas policiacas (5+3)</i></p>	<p>c. I would like to see a raised crosswalk with flashing lights activated by pedestrians. <i>Me gustar3a ver un cruce peatonal elevado con luces parpadeantes activadas por los peatones</i></p> <p>d. I am in agreement with all suggested improvements in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta secci3n</i></p>	<p>c. City will investigate this with City Traffic Engineer/ <i>La Ciudad investigar3 esto con el Consultor de Ingenier3a de Transito</i></p> <p>d. Public Safety will assist as time can be made available/ <i>Seguridad Publica ayudaraa conforme el tiempo lo permita</i></p>
<p>3rd Street & Calla Avenue intersection:</p> <p>e. Congested, lot's of movement & cars speeding/ <i>Congestionamiento, mucho movimiento y carros a altas velocidades</i></p> 	<p>3rd Street & Calla Avenue intersection: [18 Votes]</p> <p>e. [Install] traffic calming [devices], signage, curb extensions, put a raised crosswalk / <i>[Instalar elementos] para reducir las velocidades, se3alamiento, extensiones en las esquinas, poner cruces peatonales elevados (13 + 5)</i></p>	<p>3rd Street & Calla Avenue intersection:</p> <p>e. I am in agreement with all suggested improvements in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta secci3n</i></p>	<p>3rd Street & Calla Avenue intersection:</p> <p>e. City will investigate this with City Traffic Engineer/ <i>La Ciudad investigar3 esto con el Consultor de Ingenier3a de Transito</i></p>
<p>3rd Street approaching West View School:</p> <p>f. People speed toward the school/ <i>La gente va a altas velocidades hacia la escuela</i></p>	<p>3rd Street approaching West View School: [15 votes]</p> <p>f. More signage/ <i>Mas se3alamiento (8 + 7)</i></p>	<p>3rd Street approaching West View School:</p> <p>f. I am in agreement with all suggested improvements in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta secci3n</i></p>	<p>3rd Street approaching West View School:</p> <p>f. City will investigate/ <i>La Ciudad investigar3</i></p>
<p>3rd Street & Palm Avenue intersection:</p> <p>g. Conflict between cars pedestrians and bicyclists/ <i>Conflictos entre veh3culos, peatones y ciclistas</i></p> 	<p>3rd Street & Palm Avenue intersection: [1 votes]</p> <p>g. Put high visibility crosswalks/ <i>Poner cruces peatonales de alta visibilidad (0+1)</i></p> 	<p>3rd Street & Palm Avenue intersection:</p> <p>g. I am in agreement with all suggested improvements in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta secci3n</i></p>	<p>3rd Street & Palm Avenue intersection:</p> <p>g. City will investigate/ <i>La Ciudad investigar3 esto.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	West View Comments / <i>Comentarios de la Escuela West View</i>	City's Comments / <i>Comentarios de la Ciudad</i>
2. Location/Ubicación: (34 Votes)			
<p><u>Calla Avenue toward school:</u></p> <p>a. Speeding cards/ <i>Carros a altas velocidades</i></p>  <p><u>Calla Avenue</u></p> <p>b. Old and cracked sidewalks/ <i>Banquetas viejas y rotas</i></p>	<p><u>Calla Avenue toward school:</u> [24 Votes]</p> <p>a. More signage, more police enforcement, put a raised crosswalk similar to the one in front of Central Elementary/ <i>Mas señalamiento, mas aplicación de medidas policíacas, poner un cruce peatonal similar al que tienen en frente de la escuela Central (18+6)</i></p> <p><u>Calla Avenue:</u> [10 Votes]</p> <p>b. New and improved sidewalks/ <i>Banquetas nuevas y mejoradas(9+1)</i></p>	<p><u>Calla Avenue toward school:</u></p> <p>a. I am in agreement with the improvement suggestions in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta sección</i></p> <p><u>Calla Avenue:</u></p> <p>b. I am in agreement with the improvement suggestions in this section/ <i>Estoy de acuerdo con todas las sugerencia de mejoras en esta sección</i></p>	<p><u>Calla Avenue toward school:</u></p> <p>a. City will investigate/ <i>La Ciudad investigará esto</i></p> <p><u>Calla Avenue:</u></p> <p>b. City will investigate/ <i>La Ciudad investigará esto</i></p>
3. Location/Ubicación: (8 Votes)			
<p><u>Parking lot:</u></p> <p>a. Not enough parking/ <i>No hay suficiente estacionamiento</i></p>	<p><u>Parking lot:</u> [8 Votes]</p> <p>a. Make more parking available for parents / <i>Crear más espacio de estacionamientos disponibles para los padres de los estudiantes (4+4)</i></p>	<p><u>Parking lot:</u></p> <p>a. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Parking lot:</u></p> <p>a. Suggest coordinated planning with School District, since on street parking is limited/ <i>Se sugiere planeación coordinada con el Distrito Escolar ya que el estacionamiento público es limitado</i></p>
4. Location/Ubicación: (8 Votes)			
<p><u>Rainbow Drive & SR-75 intersection:</u></p> <p>a. Confusing entry and exit on main road (SR-75)/ <i>Una entrada y salida confusa en la vialidad principal (SR-75)</i></p> 	<p><u>Calla Avenue & SR-75 intersection:</u> [8 Votes]</p> <p>a. [Install] traffic calming devices and neighborhood signage/ <i>[Instalar elementos] para reducir la velocidad vehicular e instalar señalamientos que hay un vecindario (8+0)</i></p>	<p><u>Calla Avenue & SR-75 intersection:</u></p> <p>a. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Calla Avenue & SR-75 intersection:</u></p> <p>a. City will investigate/ <i>La Ciudad investigará esto</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	West View Comments / <i>Comentarios de la Escuela West View</i>	City's Comments / <i>Comentarios de la Ciudad</i>
5. Location/Ubicación:		(6 Votes)	
<u>Around neighborhoods specially around Hemlock Avenue:</u> a. Very dark/ <i>Muy oscuro</i>	<u>Around neighborhoods specially around Hemlock Avenue:</u> [6 Votes] a. Put more human scale public lighting on sidewalk/ <i>Poner más alumbrado público a escala humana en la banqueta (3+3)</i>	<u>Around neighborhoods specially around Hemlock Avenue:</u> a. I am in agreement/ <i>Estoy de acuerdo</i>	<u>Around neighborhoods specially around Hemlock Avenue:</u> a. Lighting can be improved through a Lighting Assessment District approved by the home owners/ <i>El alumbrado se puede mejorar a través de un Distrito de Alumbrado que sea aprobado por los residentes</i>
6. Location/Ubicación:		(2 Votes)	
<u>Around West View Elementary:</u> a. People smoking/ <i>Gente fumando</i>	<u>Around West View Elementary:</u> [2 votes] a. Put "No Smoking" signs within legal distance from school/ <i>Poner señales de "No Fumar" dentro de la distancia legal de la escuela (0+2)</i>	<u>Around West View Elementary:</u> a. I have not observed this, but signage is a good idea/ <i>Yo no he vista esto, pero los señalamientos son una buena idea</i>	<u>Around West View Elementary:</u> a. City believes the signage should be initiated by the school district/ <i>La Ciudad cree que el señalamiento debería ser puesto por el distrito escolar</i>

*(a+b) a= votes gathered on the October 19 workshop
 b= votes gathered at the Halloween Parade

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Appendix B

SRTS Reports

The attached reports are also called SRTS Program Action Plans





Imperial Beach: Let's Move Together
Bayside Elementary School/ *Escuela Primaria Bayside*



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 12 residents, City and Sheriff's Department staff at Bayside Elementary School located at 490 Emory Street, Imperial Beach, CA 91932 on January 18, 2012 to identify activities to support children to safely commute to Bayside Elementary School.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 12 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Primaria Bayside ubicada en 490 Emory Street, Imperial Beach, CA 91932 el 18 de Enero de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Bayside.

Workshop participants suggested the following activities to support children safely commute to school:

Los participantes del taller sugirieron las siguientes actividades para apoyar niños a caminar o ir a la escuela de manera segura:

Vision for Bayside Elementary SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Bayside:

- More kids walking to school
Que más niños caminen a la escuela
- More security, sense of safety and increased safety
Más seguridad y sentido de seguridad
- More education for children on safe walking, etc
Mas educación a los niños sobre seguridad peatonal, etc.

The following activities were suggested for the Bayside Elementary School SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela Bayside

	Activities/ <i>Actividades</i>
Education/ <i>Educación</i>	<ul style="list-style-type: none"> • Students/ <i>Estudiantes</i> <ul style="list-style-type: none"> ○ Educate students in classrooms, connect classroom education to encouragement activities/ <i>Educar a los estudiantes dentro del salón de clases, conexión entre la educación en el salón de clase y las actividades de motivación</i> • Parents/ <i>Padres de Familia</i> <ul style="list-style-type: none"> ○ Engage parents to engage other parents/ <i>Involucrar a los padres para que involucren a otros padres de familia</i> • Neighborhood and Drivers:/ <i>Comunidad y conductores:/</i> <ul style="list-style-type: none"> ○ More signs and banners with safety messages to educate drivers and get them to slow down/ <i>Mas cartelones y lonas con mensajes de seguridad para educar a los conductores y que reduzcan su velocidad</i> ○ Educate neighbors to watch for students by sending out flyers <i>Por medio de volantes, educar a los vecinos para que miren a los estudiantes</i>

<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Promote walking with walk to school days weekly/ <i>Promover caminar teniendo días de caminar a la escuela cada semana</i> ○ Hold walk to school days with parent volunteers more regularly/ <i>Hacer mas días de caminar a la escuela con padres de familia voluntarios mas regularmente</i> ○ Focus on people that live close enough to walk/ <i>Enfocarse en que camine la gente que vive más cerca</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • School safety patrol (with students, Crossing guard (parent), and community/ <i>Patrulla de seguridad escolar (con estudiantes, guardias de cruce (padres de familia) y la comunidad:</i> <ul style="list-style-type: none"> ○ Better loading/unloading procedure/ <i>Mejores procedimientos para abordar y desaboardar</i> ○ Educational programs on what to do & where to go if kids miss the bus home (procedures)/ <i>Programas educativos sobre qué hacer y adonde ir encase de que los niños pierdan el camión escolar (procedimientos)</i> ○ People with yellow vests 30 minutes before and after school with walkie-talkies helping police and patrolling/ <i>Gente con chalecos Amarillo 30 minutos antes y después de escuela con radios (walky-talkies) que ayuden a la policía a patrullar</i> ○ Parent Volunteers or maybe high school students/ <i>Padres voluntarios o tal vez estudiantes de preparatoria</i> ○ Engage senior patrol/ <i>Involucrar a la patrulla de adultos mayores</i> ○ Parent coordinator for volunteers/ <i>Coordinación de padres voluntarios</i>
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> • Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ Lit crosswalks on the street with flashing lights/ <i>Alumbrar los cruces peatonales en la calle con luces parpadeantes</i>

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Imperial Beach: Let's Move Together
Central Elementary School/ *Escuela Primaria Central*



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 19 residents, City and Sheriff's Department staff at Central Elementary School located at 1290 Ebony Avenue, Imperial Beach, CA 91932 on May 8, 2012 to identify activities to support children to safely commute to Central Elementary School.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 19 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Primaria Central ubicada en 1290 Ebony Avenue, Imperial Beach, CA 91932 el 8 de Mayo de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Central.

Workshop participants suggested the following activities to support children safely commuting to school:

Los participantes del taller sugirieron las siguientes actividades para apoyar niños a que lleguen de manera segura a la escuela:

Vision for the Central Elementary School SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Primaria Central:

- Increased safety for more active transportation/
Aumentar la seguridad para mayor transportación activa.
- Better driver education/
Mejor educación de los conductores.
- More eyes on the street for better safety/
Mas ojos en la calle para mejor seguridad.
- More education for parents so that education can be transferred to the youth /
Mas educación para los padres de familia para que la educación se pueda transferir a los niños.
- Safer routes on main roads (13th Street)/
Rutas más seguras en las calles principales (13th Street).

The following activities were suggested for the Central Elementary School SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela de la Escuela Primaria Central.

	Activities/ <i>Actividades</i>
Education/ <i>Educación</i>	<ul style="list-style-type: none"> • Students/ <i>Estudiantes</i> <ul style="list-style-type: none"> ○ Traffic safety education for students through the school or through the police/ <i>Educación de seguridad vial para estudiantes a través de la escuela y la policía</i> ○ Pedestrian safety at school (Walk this Way stile training) / <i>Seguridad peatonal en la escuela (entrenamiento estilo Walk This Way).</i> <ul style="list-style-type: none"> • Involve parents/ <i>Involucrar a los padres de familia</i>

<p>Education/ Educación</p>	<ul style="list-style-type: none"> • Parents/ <i>Padres de Familia</i> <ul style="list-style-type: none"> ○ A campaign with signs, banners to create awareness/ <i>Una campana con cartelones y lonas para crear conciencia</i> <ul style="list-style-type: none"> • Install them continuously throughout the City/ <i>Instalarlos de manera continua en la Ciudad</i> ○ Newsletter indicating messages related to safety (e.g. reminders about getting to school early)/ <i>Que el boletín informativo contenga mensajes relacionados a la seguridad (ej. Recordatorios para que llega la gente temprano a la escuela)</i> ○ Assemblies where parents are formally invited in order to create more interest in parents attendance (tie the assembly to the children activities – e.g. give children grades to parents, etc)/ <i>Asambleas para padres donde la invitación sea más formal para que haya más interés en la asistencial (relacionar la asamblea con actividades de los niños e.g. entrega de calificaciones, etc)</i> • Neighborhood and Drivers:/ <i>Comunidad y conductores:/</i> <ul style="list-style-type: none"> ○ Community workshops through the police department / <i>Talleres comunitarios a través del departamento de policía</i> ○ Install community signs through the City to remind community about safety/ <i>Instalar cartelones comunitarios a través de la Ciudad para recordar a la comunidad sobre la seguridad.</i> ○ Use the school marquee to send community messages/ <i>Utilizar el anuncio que está en frente de la escuela para hacer mensajes comunitarios</i> ○ Electronic Feedback signs/ <i>Anuncios en el tableros electrónicos que se pone en las vialidades</i>
<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Walking cards (engage the PTA to find ways to buy them) / <i>Tarjetas para caminantes frecuentes (involucrar a la Asociación de Padres y Maestros “PTA” para buscar manera de comprarlas)</i> ○ Organize a Walk to school Day/ <i>Organizar un Día de Caminar a la Escuela</i> ○ Establish Park and Walk sites/ <i>Establecer sitios para Estacionarse y Caminar a la Escuela</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • School safety patrol (with students, Crossing guard (parent), and community/ <i>Patrulla de seguridad escolar (con estudiantes, guardias de cruce (padres de familia) y la comunidad:</i> <ul style="list-style-type: none"> ○ Place signs around the school indicating the cost of the tickets/ <i>Poner cartelones alrededor de la escuela indicando los costos de las multas vehiculares.</i> ○ Banners/ <i>Lonas</i> ○ Safety Patrol warning tickets/ <i>Que la Patrulla de Seguridad Escolar de avisos de multa</i>

	<ul style="list-style-type: none"> ○ More enforcement at back entrance and 13th Street/ <i>Mas aplicación de medidas en la entrada trasera y la 13th Street</i> ● Law Enforcement (Sheriff's Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ Police presence/ <i>Presencia policiaca</i> ○ Install cameras at traffic lights/ <i>Instalar cámaras en los semáforos</i> ○ Install speed radars/ <i>Instalar radares de velocidad</i>
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> ● Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ Add a drop off zone/ <i>Poner una zona para desabordar a los estudiantes</i>

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Imperial Beach: Let's Move Together
*Imperial Beach Charter**



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 12 residents, City and Sheriff's Department staff at the Imperial Beach Charter School* located at 650 Imperial Beach Boulevard, Imperial Beach, CA 91932 on April 26, 2012 to identify activities to support children to safely commute to Imperial Beach Elementary.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 12 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Imperial Beach Charter ubicada en 650 Imperial Beach Boulevard, Imperial Beach, CA 91932 el 26 de Abril de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Imperial Beach.

Workshop participants suggested the following activities to support children safely commuting to school:
Los participantes del taller sugirieron las siguientes actividades para apoyar niños a que lleguen de manera segura a la escuela:

Vision for the Imperial Beach Charter School SRTS Program:
Visión para el Programa de Rutas Seguras a la Escuela Imperial Beach Chárter:

- More children getting to school actively/
Mas niños llegando a la escuela de manera activa.
- Safer routes to school that are identified and drivers drive more cautiously/
Rutas más seguras a la escuela que estén identificadas y que los conductores manejen de manera mas precavida.
- Safety education incorporated into PE classes/
Educación sobre seguridad que este incorporada a las clases de educación física
- Safer drivers with more awareness of pedestrians/
Conductores más seguros y con mayor conciencia acerca de los peatones
- Incentive programs with rewards for using active transportation to get to school/
Programas de incentivos con premios para quien vaya de manera activa a la escuela.
- Increased enforcement of speeding on major streets (IB Blvd)/
Mas aplicación de las medidas policíacas para quien vaya a altas velocidades en vialidades principales (I.B. Boulevard)
*Engineering strategies to reduce speeding/
 Estrategias de ingeniería para reducir las velocidades vehiculares*

The following activities were suggested for the Imperial Beach Charter School SRTS program:
Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela de la Escuela Imperial Beach Charter.

	Activities/ Actividades
Education/ Educación	<ul style="list-style-type: none"> • Students/ Estudiantes <ul style="list-style-type: none"> ○ Involve children in making banners/signs with safety messages to educate adults and children at once/ <i>Incorporar a los niños para que hagan estandartes/ pancartas/cartelones con mensajes educativos enfocados a los adultos y a los niños a la vez</i> • Have a contest for the best one/ <i>Hacer competencias para ver cuál es el mejor</i>

**Education/
Educación**

- Involve the police dept. in safety education for the kids /
Incorporar al departamento de policía en la educación de seguridad para los niños.
- Safety education assemblies for students/
Asambleas donde se eduque sobre seguridad a los niños
- Engage the police to teach personal safety during assemblies/
Involucrar a la policía para que les enseñe sobre seguridad personal a los niños durante las asambleas
- **Parents/
*Padres de Familia***
 - Start a newsletter with “did you know” safety messages to educate parents/
Iniciar una gaceta con “sabía usted” y poner mensajes de seguridad para educar a los padres de familia
 - Put safety messages on the school website/
Poner mensajes de seguridad en la página de internet de la escuela
 - Utilize district newsletter to get safety messages to all parents/
Utilizar el periódico del distrito para dar mensajes de seguridad a todos los padres de familia
 - PTA to get involved/
Involucrar al PTA (Asociación de padres y maestros)
 - Have a booth at school events to teach safety/
Tener una mesa en los eventos de la escuela donde se enseñe sobre seguridad
 - Educate parents through assemblies about the importance and benefits of walking either to school or around the field, tell parents why its so important so it becomes normal for them/
Educar a los padres de familia a través de asambleas donde se hable de la importancia y de los beneficios de caminar ya sea en la escuela o alrededor de la cancha, hablarle a los padres de la importancia para que sea normal para ellos.
- **Neighborhood and Drivers:/
*Comunidad y conductores:***
 - City’s public safety offers light up signs to put safety messages on to educate the community/
El departamento de seguridad de la ciudad ofrece cartelones de light up para poner mensajes de seguridad para educar a la comunidad
 - Make signs for neighbors yards/
Hacer cartelones para los patios frontales de los vecinos.

<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Have trophy awards similar to attendance award to reward active transportation/ <i>Tener premios en forma de trofeo de manera similar a los premios por asistencia para premiar a quienes utilicen transportación activa</i> ○ Have a logo contest to get students involved/ <i>Tener un concurso de logo para que los estudiantes se involucren</i> ○ Hold a walk to school day event/ <i>Organizar un evento del día de caminar a la escuela</i> <ul style="list-style-type: none"> • Invite friends to participate/volunteer/ <i>Invitar a amigos para que participen/sean voluntarios</i> ○ Look into getting pedometers for students/ <i>Ver si se pueden conseguir pedómetros para los estudiantes</i> ○ (Provide bicycle parking if students were allowed to ride)/ <i>Que haya estacionamiento para bicicletas en caso de que se les permita a los estudiantes utilizar sus bicicletas</i> ○ Implement walking punch cards/ <i>Implementar el uso de tarjetas de caminantes</i> ○ Establish walking school bus routes and schedules with volunteers/ <i>Establecer rutas para camiones caminantes y establecer horarios con la presencia de voluntarios</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • Law Enforcement (Sheriff's Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ “ Respect our neighborhood” yard signs throughout the neighborhood to improve safety/ <i>Letreros que indiquen “respeta nuestro vecindario” en el patio de enfrente por todo el vecindario para mejorar la seguridad</i> ○ Engage volunteers to be “eyes on the street” with vests/ <i>Involucrar a voluntarios para que representen “ojos en la calle” y que lleven puesto algún chaleco</i> ○ Look into methods for improving afternoon pick-up strategies – maybe have students walk to a nearby park to get picked up/ <i>Ver métodos para mejorar las estrategias para recoger a los niños en la tarde – a lo mejor que algunos estudiantes caminen al parque y allí los recojan</i> ○ Utilize mobile speed feedback trailers / <i>La utilización de tráiler que midan la velocidad de los vehículos</i> ○ Engage police dept. to give kids “caught being good” tickets with possible rewards for safe walking, wearing helmets, etc./ <i>Involucrar al departamento de policía para que implemente el “te atrape haciendo bien las cosas” y de tickets con posibles premios para quienes caminen de manera segura, utilicen cascos, etc.</i> ○ School is already recording license plates and giving warnings to drivers in addition to reporting to the law enforcement – could be model for other schools./ <i>La escuela ya está registrando las placas de los vehículos y dando advertencias a los</i>

<p>Enforcement/ Aplicación de Medidas</p>	<p>conductores además de reportarlos a la policía – puede ser un modelo par a las otras escuelas</p> <ul style="list-style-type: none"> ○ Signs near the school with safety messages, “please slow down” etc. (- the signs used during sand castles, contact Hank for use)/ Letreros cerca de las escuela con mensajes de seguridad, “por favor reducir la velocidad” etc (las señales que se utilizan durante el evento de los castillos de arena, contactar a Hank para utilizarlos ○ Engage nearby senior residents to be eyes on the street/volunteer with SRTS activities/ Involucrar a la comunidad de la tercera edad par aquí sean ojos en la calle / voluntarios en actividades de rutas seguras a la escuela <ul style="list-style-type: none"> ● Senior apts. nearby – work on engaging residents/ Apartamentos para gente de la tercera edad están cerca – trabajar con los residentes más activos
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> ● Plan and install improvements around school for enhanced safety* / Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad* <ul style="list-style-type: none"> ○ When seeking grants, pursue the undergrounding of utilities to make sidewalks wider and safer/ Al buscar por financiamiento, buscar que los servicios se instalen bajo el suelo para hacer las banquetas más amplias y seguras\ ○ More school zone signage with flashing lights/ Mas señalamientos de zona escolar con luces parpadeantes ○ Establish suggested route to school maps based on community input to identify safe routes/ establecer mapas con rutas recomendadas a la escuela basadas en la participación comunitaria para identificar las rutas más seguras ○ Speed radar signs with flashing light when car is speeding – use these around the school/ Señales con radar de velocidad y luces parpadeantes cuando los vehículos vayan a altas velocidades – utilizarse alrededor de la escuela

* Imperial Beach Elementary merged with West View School to become Imperial Beach Charter School, the West View Campus became Imperial Beach West Campus of the Imperial Beach Charter School /
La Imperial Beach Elementary se unió a West View School para convertirse en Imperial Beach Charter School. El campus de West View se convirtió en el Imperial Beach West Campus de la Escuela Imperial Beach Charter School.

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Imperial Beach: Let's Move Together
Mar Vista High School/ Escuela Preparatoria Mar Vista



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, met regularly with 3-6 Mar Vista High School students at the Imperial Beach Library located at 810 Imperial Beach Blvd. Imperial Beach, CA 91932 to identify activities to support students to safely commute to Mar Vista High School.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con estudiantes de la escuela Preparatoria Mar Vista en la biblioteca de Imperial Beach ubicada en el 810 Imperial Beach Blvd. Imperial Beach, CA 91932 para identificar actividades para apoyar a los estudiantes a que lleguen seguros a la Escuela Mar Vista.

Workshop participants suggested the following activities to support student to safely commute to school:

Los participantes del taller sugirieron las siguientes actividades para apoyar a que los estudiantes lleguen de manera segura a la escuela:

Vision for the Mar Vista High School SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela de Mar Vista High School:

- School environment free of drunk drivers/
Entorno escolar libre de conductores borrachos
- Reduced number of liquor outlets in the City, especially around 13th Street and I.B. Boulevard
Menor cantidad de establecimientos con venta de alcohol, especialmente alrededor de 13th Street y I.B. Boulevard

The following activities were suggested for the Mar Vista High School SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela Preparatoria Mar Vista.

	Activities/ Actividades
Education/ Educación	<ul style="list-style-type: none"> • Students and the Community/ <i>Estudiantes y la Comunidad</i> <ul style="list-style-type: none"> ○ Use banners and posters to educate students and drivers about pedestrian and bicycle safety/ <i>Utilizar lonas y posters para educar a los estudiantes y a los conductores sobre seguridad peatonal y ciclista</i> <ul style="list-style-type: none"> • Banners and posters designed by students, etc/ <i>Lonas y posters diseñados por los estudiantes, etc.</i> ○ Organize events and campaigns to educate students and the community to behave better, no drinking and driving, bicycle and pedestrian safety, etc / <i>Organizar eventos y campañas para educar a los estudiantes y a la comunidad para que se comporten mejor, no tomen y manejen, seguridad peatonal y ciclista, etc</i>



<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking and Biking promotion/ <i>Promover el Caminar y andar en bicicleta</i> <ul style="list-style-type: none"> ○ Promote a bike to school/work day event / <i>Promover un evento de ir a la escuela/al trabajo en bicicleta</i> ○ Engage students to create materials for activities related to Safe Routes to School / <i>Incorporar a los estudiantes en la creación de material para las actividades relacionadas al programa de Rutas Seguras a la Escuela</i> ○ Engage activities into ASB calendar and activities/ <i>Incorporar las actividades al calendario y actividades de la Asociación de Estudiantes (ASB por sus siglas en ingles)</i> ○ Prizes, raffles for better student participation/ <i>Premios y rifas para una mayor participación de estudiantes</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • Law Enforcement (Sheriff's Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ Police to be more aware of alcohol and drug use to improve pedestrian, driving and bicycle safety around school / <i>Que la policía este más pendiente de el uso de alcohol y drogas para mejorar la seguridad peatonal, de los conductores y de los ciclistas alrededor de la escuela</i> ○ Better enforcement around 13th Street and Imperial Beach Boulevard, many people buying alcohol already being drunk/ <i>Mejor aplicación de medidas alrededor de 13th Street e Imperial Beach Boulevard, mucha gente comprando alcohol que ya está tomada</i>
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> • Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ Review Mar Vista school walkability report/ <i>Revisar el reporte de caminabilidad de la escuela Mar Vista</i>

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Imperial Beach: Let's Move Together
Oneonta Elementary School/ *Escuela Primaria Oneonta*



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 17 residents, City and Sheriff's Department staff at Oneonta Elementary School located at 1311 Tenth Street, Imperial Beach, CA 91932 on May 2, 2012 to identify activities to support children to safely commute to Oneonta Elementary School.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 17 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Primaria Imperial Beach ubicada en 1311 Tenth Street, Imperial Beach, CA 91932 el 2 de Mayo de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Oneonta.

Workshop participants suggested the following activities to support children safely commuting to school:

Los participantes del taller sugirieron las siguientes actividades para apoyar niños a que lleguen de manera segura a la escuela:

Vision for the Oneonta Elementary School SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Primaria Oneonta:

- Better and safer crossings at major streets (e.g. 13th Street and Imperial Beach Boulevard)/
Mejores y más seguridad en los cruces, en las calles principales (ej. 13th y IB Blvd)
- Safer crossings at the intersections/
Cruces más seguros en las intersecciones
- More adults following the safety rules/
Mas adultos siguiendo las reglas de seguridad
- More respect from vehicle drivers to pedestrians/
Mas respeto de los conductores a los peatones
- More safety on the streets/
Mas seguridad en as calle

The following activities were suggested for the Oneonta Elementary School SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela de la Escuela Primaria Oneonta.

	Activities/ <i>Actividades</i>
Education/ <i>Educación</i>	<ul style="list-style-type: none"> • Students/ <i>Estudiantes</i> <ul style="list-style-type: none"> ○ Assemblies (involve the police)/ <i>Asambleas (involucrar a la policía)</i> ○ Training for the children (Walk this Way)/ <i>Entrenamiento para los niños (Walk This Way)</i> ○ Active transportation week/ <i>Semana de transporte activo</i> • Parents/ <i>Padres de Familia</i> <ul style="list-style-type: none"> ○ Meetings for parents (see different schedules, classrooms safety/anti-bullying/ <i>Juntas para padres (ver diferentes horarios seguridad – salón de clases/anti-acoso escolar</i> ○ More parent participation/ <i>Mas participación de los padres</i>

<p>Education/ Educación</p>	<ul style="list-style-type: none"> ○ Community event through sheriff (all safety patrol from schools/ <i>Eventos comunitarios a través del departamento del sheriff (con todas las patrullas de seguridad de todas las escuelas)</i> ○ School bulletin (bi-weekly) / <i>Boletín escolar (quincenal)</i> ○ Parent pledges (educative) linked to incentives/ <i>Juramentos para padres (educativos) relacionados a incentivos</i> ○ Involve parents through community service (registration packages)/ <i>Involucrar a los padres de familia a través de los paquetes de registro (servicio comunitario)</i>
<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> ● Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Walk-a-tons – pledge/ <i>Juramento – eventos de caminata</i> <ul style="list-style-type: none"> ● A different walking to school activity every week/ <i>Diferentes para llegar a la escuela cada semana</i> ○ Oneonta Elementary has a “caught you being good” program/ <i>La Escuela Oneonta tiene un programa de te atrape haciendo bien las cosas</i> ○ Contests (class contests) / <i>Competencias (entre clases)</i> <ul style="list-style-type: none"> ● Prizes - pizza party/ <i>Premios – fiesta con pizza</i> ○ Walking cards/ <i>Tarjetas de caminante frecuente</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> ● School safety patrol (with students, Crossing guard (parent), and community/ <i>Patrulla de seguridad escolar (con estudiantes, guardias de cruce (padres de familia) y la comunidad:</i> <ul style="list-style-type: none"> ○ “Project safe way” kind of activity on the back entrance/ <i>Actividad similar a “Project Safe Way” en la entrada posterior</i> ○ Signs at school parking entrance “watch for pedestrians”/ <i>Señales en el estacionamiento de la entrada de la escuela que indiquen “cuidado con los peatones”</i> ○ More pedestrian walking “yield” signs on major streets/ <i>Mas señales de “peatones caminando” ceder el paso” en las calles principales</i> ○ School to be more engaged with parents on telling them what to do/ <i>Que las escuelas estén más involucradas con los padres de familia y les indique que hacer</i> <ul style="list-style-type: none"> ● Bullying/ <i>Acoso escolar</i> ● Law Enforcement (Sheriff’s Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ Police presence/ <i>Mas presencia policiaca</i> ○ More school zone sign/ <i>Mas señales de zona escolar</i>

<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> • Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ At 13th Street & Holly intersection vehicles do not stop for pedestrians, Speeding, Many accidents/ <i>Los vehículos no hacen alto por los peatones, altas velocidades, muchos accidentes</i> <ul style="list-style-type: none"> • Yield signs, main access to military base. Contact base and engage them to respect this street to prevent accidents/ <i>Señales de ceder el paso, en el acceso principal para la base militar. Contactar a la base militar e involucrarlos con respecto a esta calle para prevenir accidentes</i> ○ At 13th Street & Fern intersection vehicles do not stop for pedestrians, Speeding, Many accidents/ <i>Los vehículos no hacen alto por los peatones, altas velocidades, muchos accidentes</i> <ul style="list-style-type: none"> • Yield signs, main access to military base. Contact base and engage them to respect this street to prevent accidents/ <i>Señales de ceder el paso, en el acceso principal para la base militar. Contactar a la base militar e involucrarlos con respecto a esta calle para prevenir accidentes</i> ○ At 9th Street & Holly intersection vehicles invading crosswalk when making left turn looking for other vehicles but not for pedestrians/ <i>Vehículos invadiendo los cruces peatonales cuando dan vuelta a la izquierda ya que tienen precaución de otros vehículos pero no de los peatones</i> <ul style="list-style-type: none"> • Safety patrol/ <i>Patrulla de seguridad</i>
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Imperial Beach: Let's Move Together
VIP Village Preschool/ Preescolar VIP Village



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 6 residents, City and Sheriff's Department staff at the VIP Preschool Village located at 1001 Fern Avenue, Imperial Beach, CA 91932 on February 29, 2012 to identify activities to support children to safely commute to VIP Preschool Village.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 6 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en el Pre-escolar VIP Village ubicada en 1001 Fern Avenue, Imperial Beach, CA 91932 el 29 de Febrero de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Pre-escolar VIP Village.

Workshop participants suggested the following activities to support children safely commuting to school:

Los participantes del taller sugirieron las siguientes actividades para apoyar niños a que lleguen de manera segura a la escuela:

Vision for the VIP Preschool Village SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Pre-escolar VIP Village:

- Drivers who respect pedestrians and the law
Conductores que respetan a los peatones y a la ley
- Increased awareness that this is a school zone
Más conciencia de que esta es una zona escolar
- More traffic control devices, greater awareness of the school and presence of students
Mas aparatos para controlar el transito, mayor conciencia de la zona escolar y sobre la presencia de de estudiantes.

The following activities were suggested for the VIP Preschool Village SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela Pre-escolar VIP Village.

	Activities/ Actividades
Education/ Educación	<ul style="list-style-type: none"> • Students/ Estudiantes <ul style="list-style-type: none"> ○ Use images to educate children about pedestrian safety, both at home and at school / <i>Utilizar imágenes para educar a los niños acerca de la seguridad peatonal, tanto en casa como en la escuela</i> <ul style="list-style-type: none"> • Cartoons, posters with pictures, etc/ <i>Caricaturas, cartelones con imágenes, etc.</i> ○ Incorporate pedestrian safety into classroom curriculum/ <i>Incorporar seguridad peatonal al currículo escolar</i> ○ Hold assemblies with guest speakers such as police officer/ <i>Hacer asambleas con invitados por ejemplo la policía</i>

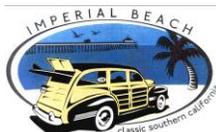
<p>Education/ Educación</p>	<ul style="list-style-type: none"> • Parents/ <i>Padres de Familia</i> <ul style="list-style-type: none"> ○ Educate through flyers about driver/pedestrian safety/ <i>Educación a través de volantes (flyers) acerca de la seguridad vehicular y peatonal</i> ○ Engage parents to engage other parents/ <i>Involucrar a otros padres de familia</i> • Neighborhood and Drivers:/ <i>Comunidad y conductores:/</i> <ul style="list-style-type: none"> ○ Use flyers with educational messages/ <i>Utilizar volantes (flyers) con mensajes educativos</i> ○ Use banners and signage with educational messages –“Slow Down” etc. like the Chula Vista Example/ <i>Utilizar lonas y rótulos con mensajes educativos – “Reducir la Velocidad” etcétera, como ejemplo lo que hacen en la Ciudad de Chula Vista</i> ○ Canvas the neighborhood ask what their traffic issues are and give flyers/ <i>Encuestar el vecindario y preguntar cuales son los problemas de transito y pasar volantes (Flyers)</i> • Teachers/ <i>Maestros</i> <ul style="list-style-type: none"> ○ Educate teachers on ped safety to teach the students & parents/ <i>Educar a los maestros sobre educación peatonal para que ellos le enseñen a los estudiantes y a los padres de familia</i>
<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Promote walk to school day event / <i>Promover evento de caminar a la escuela</i> ○ Materials & outreach should look like its coming from the school, engage the teachers to tell the parents about the events, make it “school-sponsored” to increase participation/ <i>El material y la manera de acercarse a la comunidad debe parecer que viene de la escuela, involucrar a los maestros y decirle a los padres sobre el evento, hacer lo ‘ que la escuela participe en la coordinación’ para incrementar la participación</i> ○ Incorporate the event into the school calendar to make it a school event <i>Incorporar el evento al calendario escolar para hacer que esto sea un evento escolar</i> ○ Park and walk sites during W2SD events/ <i>Sitios de estacionarse y caminar durante los eventos del día de caminar a la escuela (W2SD por sus siglas en ingles)</i> <ul style="list-style-type: none"> • 9th St. south of IB Blvd./ <i>9th Street al sur de IB Blvd.</i> • Look for other areas with parking available & coordinate with the organizations for the event (such as church parking)/ <i>Buscar otras ares con estacionamiento disponible y coordinarse con la organización para el evento (podría ser el estacionamiento de una iglesia)</i> •

<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • School safety patrol (with students, Crossing guard (parent), and community/ <i>Patrulla de seguridad escolar (con estudiantes, guardias de cruce (padres de familia) y la comunidad:</i> <ul style="list-style-type: none"> ○ Regular reminders – some teachers have their own monthly newsletter; these could be used for education & enforcement activities/ <i>Avisos regulares – algunos maestros tienen su propia gaceta mensual; esta podría ser utilizada para actividades de educación y aplicación de medidas</i> • Law Enforcement (Sheriff’s Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ Progressive ticketing – engage parents to write down license plates to educate drivers, take photos, give info to police and they will talk to the drivers, not ticket/ <i>Multas de manera progresiva – motivar a que los padres de familia escriban las placas de los vehículos para educar a los conductores, tomar fotografías, brindar la información a la policía y que ellos hablen con los conductores, no dar multas</i> ○ Mobile feedback trailers can be made available to schools upon formal request [to the Sheriff’s department] – with safety messages and or speeds/ <i>Se pueden poner tráileres que muestran la velocidad por las escuelas si se solicitan de manera formal [al departamento del Sheriff] – con mensajes de seguridad y las velocidades</i>
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> • Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ When seeking grants, pursue the undergrounding of utilities to make sidewalks wider and safer/ <i>Al buscar por financiamiento, buscar que los servicios se instalen bajo el suelo para hacer las banquetas más amplias y seguras\</i> ○ More school zone signage with flashing lights/ <i>Mas señalamientos de zona escolar con luces parpadeantes</i>

* Infrastructure improvements are not allowed under the Environmental Justice grant received by this program/
No se permiten mejoras de infraestructura en este programa de Justicia Ambiental

For more information please contact/ Para más información, por favor comuníquese con:

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Appendix C

Funding Recommendations



Funding Recommendations:

Funding Name	Source	Who Could Apply	Purpose
Federal SRTS *	Caltrans / FHWA	City of Imperial Beach	Infrastructure/ Non – Infrastructure projects
State SRTS Grant *	Caltrans	City of Imperial Beach	Infrastructure with 10% Non - Infrastructure
HSIP	FHWA	City of Imperial Beach	Infrastructure Projects
SRTS Mini Grant (\$1,000.00)	National Center for Safe Routes to School	Schools, PTA or other school Groups, City of National City, Non-Profit Organizations	Improve safety, Increase number of students walking and bicycling to school, emphasize physical activity, explore environmental concerns, Contribute to an overall positive learning environment, participation in civic discussion
Capital Improvement Projects	City of Imperial Beach (Local Funding)	Local Planning or Traffic Engineering Departments	Infrastructure projects using local public funds
Environmental Justice Grant	Caltrans	City of Imperial Beach / SANDAG – potential for non-profit partnerships with the City or SANDAG	Non-infrastructure grants focus on access to affordable transportation options, jobs, employment opportunities. Air and noise pollution. Extended & more frequent transit service. Pedestrian and bicycle safety. Access to affordable housing
Community Based Transportation Grant	Caltrans	City of Imperial Beach / SANDAG – potential for non-profit partnerships with the City or SANDAG	Non-infrastructure grant focus on helping communities plan for closer connection between transportation and land use.
PTA and School Based Organizations	Variable per Individual schools (fundraisers, etc)	Individual schools or parents within schools	Support of non-infrastructure event
Donations	Individuals, corporations, businesses, organizations, etc	Anyone – (when looking for funding ask for the “community giving programs”	Support of non-infrastructure event
Office of Traffic Safety- Pedestrian and Bicycle Education Program	Pedestrian and bicycle safety programs for children	City of San Diego, County of San Diego, School District	Non-Infrastructure educational programs

* Funding will be determined through the MAP-21 Implementation process.

Appendix D

Focus Group Evaluation Survey





Imperial Beach: Let's Move Together

Focus Group Survey



1. What grade(s) does/do your child(ren) attend at this school?

2. How far do you live from school?

less than ¼ mile ½ mile up to 1 mile More than 2 miles

¼ mile up to ½ mile 1 mile up to 2 miles Don't Know

3. Before your involvement in this program, on most days, how did your child(ren) travel to and from school?

Travel to School

Travel from School

Walk

Walk

Bike

Bike

School Bus

School Bus

Family vehicle (only children in your family)

Family vehicle (only children in your family)

Carpool (Children from other families)

Carpool (Children from other families)

Transit (City bus, trolley, etc)

Transit (City bus, trolley, etc)

Other (skateboard, scooter, inline skates, etc)

Other (skateboard, scooter, inline skates, etc)

4. How does/do your child(ren) travel to and from school on most days now?

Travel to School

Travel from School

Walk

Walk

Bike

Bike

School Bus

School Bus

Family vehicle (only children in your family)

Family vehicle (only children in your family)

Carpool (Children from other families)

Carpool (Children from other families)

Transit (City bus, trolley, etc)

Transit (City bus, trolley, etc)

Other (skateboard, scooter, inline skates, etc)

Other (skateboard, scooter, inline skates, etc)



5. Has/have your child(ren) asked you for permission to walk to/from school in the last year?

___ YES ___ NO

6. If "YES" what was their reason(s)?

7. Have the activities such as Walk to School day encouraged you/your child(ren) to keep walking on other days?

___ YES ___ NO

8. Why or why not?

9. How interested in walking to/from school is/are your child(ren)?

Before this program:

___ Very Interested ___ Interested ___ Neutral ___ Not Interested ___ Very Uninterested

After this program:

___ Very Interested ___ Interested ___ Neutral ___ Not Interested ___ Very Uninterested

10. How much fun is walking to/from school for your child(ren)?

Before this program:

___ Very Fun ___ Fun ___ Neutral ___ Boring ___ Very Boring

After this program:

___ Very Fun ___ Fun ___ Neutral ___ Boring ___ Very Boring

11. How healthy is walking to/from school for your child(ren)?

___ Very Healthy ___ Healthy ___ Neutral ___ Unhealthy ___ Very Unhealthy



12. Has your perspective changed from before participating in this program?

13. In your opinion, how much does your child's school encourage or discourage walking and biking to/from school?

Before this program:

Strongly Encourages Encourages Neither Discourages Strongly Discourages

After this program:

Strongly Encourages Encourages Neither Discourages Strongly Discourages

14. What of the following issues affects your decision to allow, or not allow your child(ren) to walk or bike to to/from school? (Select all that apply)

Allow

Distance

Convenience of driving

Time

Child's before or after school activities

Speed of traffic along route

Amount of traffic along route

Sidewalk or pathways

Safety of intersections and crossings

Crossing guards

Violence or crime

Weather or climate

Not Allow

Distance

Convenience of driving

Time

Child's before or after school activities

Speed of traffic along route

Amount of traffic along route

Sidewalk or pathways

Safety of intersections and crossings

Crossing guards

Violence or crime

Weather or climate



15. Are you aware that the South Bay Union School District (SBUSD) just approved a Safe Routes to School policy that recognizes that walking and biking promote physical activity and reduces vehicle traffic and air pollution in the vicinity of schools?

YES NO

16. Were you involved in advocating for this policy change?

YES NO NOT SURE

17. Did you participate in any of the following activities involving this policy change? (Select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Advocacy Workshop | <input type="checkbox"/> Attended a Community Dialogue
(discussion with IB City staff and School District) |
| <input type="checkbox"/> Attended a School District Meeting | <input type="checkbox"/> Spoke with other parents about this policy |
| <input type="checkbox"/> Spoke at a School District Meeting | |

18. Are you aware that SBUSD is collaborating with the City of IB with the purpose of improving infrastructure and behavior to increase safety around the schools?

YES NO

19. Would you bike with or allow your children to bicycle to/from school if bicycle racks were available?

YES NO

20. Would you bike with or allow your children to bicycle to/from school if better bicycle infrastructure, such as bike lanes, were available?

YES NO

21. Do you have additional comments about this Safe Routes to School program?



Imperial Beach: Let's Move Together Encuesta para el Grupo de Enfoque



1. ¿En qué grado escolar va(n) su(s) hijos en esta escuela?

2. ¿A qué distancia vive de la escuela?

___ menos de ¼ de milla ___ ½ milla a 1 milla ___ Mas de 2 millas

___ ¼ de milla a ½ milla ___ 1 milla hasta 2 millas ___ No se

3. Antes de involucrarse en este programa, en la mayoría de los días, ¿cómo llevaba/recogía a su(s) hijo(s) a/de la escuela?

Trayecto a la escuela

Trayecto de la escuela

___ Caminando

___ Caminando

___ En bicicleta

___ En bicicleta

___ En el camión escolar

___ En el camión escolar

___ Vehículo personal (solo niños de su familia)

___ Vehículo personal (solo niños de su familia)

___ Carpool (hay niños de otras familias)

___ Carpool (hay niños de otras familias)

___ Transporte público (Camión, trolley, etc)

___ Transporte público (Camión, trolley, etc)

___ Otro (Patineta, patín, patines, scooter, etc)

___ Otro (Patineta, patín, patines, scooter, etc)

4. En estos días, ¿cómo van/regresan sus niños de la escuela?

Trayecto a la escuela

Trayecto de la escuela

___ Caminando

___ Caminando

___ En bicicleta

___ En bicicleta

___ En el camión escolar

___ En el camión escolar

___ Vehículo personal (solo niños de su familia)

___ Vehículo personal (solo niños de su familia)

___ Carpool (hay niños de otras familias)

___ Carpool (hay niños de otras familias)

___ Transporte público (Camión, trolley, etc)

___ Transporte público (Camión, trolley, etc)

___ Otro (Patineta, patín, patines, scooter, etc)

___ Otro (Patineta, patín, patines, scooter, etc)



5. ¿Alguna vez su(s) hijo(s) le ha(n) pedido que le permitan ir/regresar caminando a/de la escuela en este año escolar?

___ SI ___ NO

6. En case de responder “SI”, ¿cuál fue la razón?

7. Las actividades como el Día de Caminar a la Escuela, ¿han motivado a que usted o su(s) hijos caminen a la escuela en otros días?

___ SI ___ NO

8. ¿Por qué o porque no?

9. ¿Qué tan interesado(s) esta(n) su(s) hijos en caminar a/de la escuela?

Antes de este programa:

___ Muy Interesado ___ Interesado ___ Neutral ___ Desinteresado ___ Muy Desinteresado

Después de este programa:

___ Muy Interesado ___ Interesado ___ Neutral ___ Desinteresado ___ Muy Desinteresado

10. Para su(s) hijos ¿Que tan divertido es caminar a/de la escuela?

Antes de este programa:

___ Muy Divertido ___ Divertido ___ Neutral ___ Aburrido ___ Muy Aburrido

Después de este programa:

___ Muy Divertido ___ Divertido ___ Neutral ___ Aburrido ___ Muy Aburrido

11. ¿Qué tan saludable es para su(s) hijo(s) el caminar a la escuela?

___ Muy Saludable ___ Saludable ___ Neutral ___ No Saludable ___ No muy saludable



12. ¿Ha cambiado su perspectiva después de participar en este programa?

13. En su opinión, ¿Que tanto promueve la escuela de su(s) hijo(s) que caminen o vayan en bicicleta a/de la escuela?

Antes de este programa:

Promueven mucho Lo promueven Neutral Lo desalientan Lo desalientan mucho

Después de este programa:

Promueven mucho Lo promueven Neutral Lo desalientan Lo desalientan mucho

14. ¿Cual de los siguientes problemas afectan su decisión para permitir, o no permitir, que su(s) hijo(s) vayan a/de la escuela caminando o en bicicleta? (Seleccione todas las que aplican)

Para permitir

Distancia

Manejar es conveniente

Tiempo

Actividades del niño antes o después de escuela

La velocidad del tráfico en la ruta

La cantidad de tráfico en la ruta

La banqueta o el camino

La seguridad de las intersecciones y cruces

Guardias de cruce

Violencia o crimen

El clima o el tiempo

Para no permitir

Distancia

Manejar es conveniente

Tiempo

Actividades del niño antes o después de escuela

La velocidad del tráfico en la ruta

La cantidad de tráfico en la ruta

La banqueta o el camino

La seguridad de las intersecciones y cruces

Guardias de cruce

Violencia o crimen

El clima o el tiempo



15. Sabía usted que el Distrito Escolar de South Bay (SBUSD) acaba de aprobar su política de Rutas Seguras a la Escuela que reconoce que caminar e ir en bicicleta a la escuela promueven la actividad física y reducen el congestionamiento vehicular y la contaminación del aire alrededor de la escuela?

SI NO

16. ¿Estuvo usted involucrado en abogar por el cambio en esta política?

SI NO NO ESTOY SEGURO(A)

17. ¿Participo usted en una de las siguientes actividades relacionadas al cambio de políticas?
(Seleccione las que apliquen)

Taller de Abogacía

Asistí a Dialogo Comunitario (discusión con empleados de la Ciudad de Imperial Beach y el Distrito Escolar)

Asistí a una Reunión del Distrito Escolar

Hable en la Reunión del Distrito Escolar

Hable con otros padres de familia acerca de esta política

18. ¿Sabía usted que el SBUSD está colaborando con la Ciudad de Imperial Beach con el propósito de mejorar la infraestructura y la conducta para mejorar la seguridad alrededor de la escuela?

SI NO

19. Usted, ¿Iría con, o permitiría a su hijo(s) ir a/de la escuela en bicicleta si hubiera en donde guardar la bicicleta en la escuela?

SI NO

20. Usted, ¿Iría con o permitiría a su hijo(s) ir a/de la escuela en bicicleta si hubiera disponible mejor infraestructura ciclista como son los carriles ciclistas?

SI NO

21. ¿Tiene usted algún comentario adicional acerca de este programa de rutas seguras a la escuela?



Imperial Beach: Let's Move Together
*Imperial Beach Charter**



Safe Routes to School (SRTS) Program
Programa de Rutas Seguras a la Escuela (SRTS)

WalkSanDiego, in partnership with the City of Imperial Beach, conducted a community workshop with 12 residents, City and Sheriff's Department staff at the Imperial Beach Charter School* located at 650 Imperial Beach Boulevard, Imperial Beach, CA 91932 on April 26, 2012 to identify activities to support children to safely commute to Imperial Beach Elementary.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach, realizaron un taller a la comunidad con 12 residentes, personal de la Ciudad de Imperial Beach y del Departamento del Sheriff en la Escuela Imperial Beach Charter ubicada en 650 Imperial Beach Boulevard, Imperial Beach, CA 91932 el 26 de Abril de 2012 para identificar actividades para apoyar a los niños a que lleguen a la Escuela Primaria Imperial Beach.

Workshop participants suggested the following activities to support children safely commuting to school:
Los participantes del taller sugirieron las siguientes actividades para apoyar niños a que lleguen de manera segura a la escuela:

Vision for the Imperial Beach Charter School SRTS Program:

Visión para el Programa de Rutas Seguras a la Escuela Imperial Beach Chárter:

- More children getting to school actively/
Mas niños llegando a la escuela de manera activa.
- Safer routes to school that are identified and drivers drive more cautiously/
Rutas más seguras a la escuela que estén identificadas y que los conductores manejen de manera mas precavida.
- Safety education incorporated into PE classes/
Educación sobre seguridad que este incorporada a las clases de educación física
- Safer drivers with more awareness of pedestrians/
Conductores más seguros y con mayor conciencia acerca de los peatones
- Incentive programs with rewards for using active transportation to get to school/
Programas de incentivos con premios para quien vaya de manera activa a la escuela.
- Increased enforcement of speeding on major streets (IB Blvd)/
Mas aplicación de las medidas policíacas para quien vaya a altas velocidades en vialidades principales (I.B. Boulevard)
Engineering strategies to reduce speeding/
Estrategias de ingeniería para reducir las velocidades vehiculares

The following activities were suggested for the Imperial Beach Charter School SRTS program:

Las siguientes actividades fueron sugeridas para el Programa de Rutas Seguras (SRTS) a la Escuela de la Escuela Imperial Beach Charter.

	Activities/ Actividades
Education/ Educación	<ul style="list-style-type: none"> • Students/ Estudiantes <ul style="list-style-type: none"> ○ Involve children in making banners/signs with safety messages to educate adults and children at once/ <i>Incorporar a los niños para que hagan estandartes/ pancartas/cartelones con mensajes educativos enfocados a los adultos y a los niños a la vez</i> • Have a contest for the best one/ <i>Hacer competencias para ver cuál es el mejor</i>

**Education/
Educación**

- Involve the police dept. in safety education for the kids /
Incorporar al departamento de policía en la educación de seguridad para los niños.
- Safety education assemblies for students/
Asambleas donde se eduque sobre seguridad a los niños
- Engage the police to teach personal safety during assemblies/
Involucrar a la policía para que les enseñe sobre seguridad personal a los niños durante las asambleas
- **Parents/
*Padres de Familia***
 - Start a newsletter with “did you know” safety messages to educate parents/
Iniciar una gaceta con “sabía usted” y poner mensajes de seguridad para educar a los padres de familia
 - Put safety messages on the school website/
Poner mensajes de seguridad en la página de internet de la escuela
 - Utilize district newsletter to get safety messages to all parents/
Utilizar el periódico del distrito para dar mensajes de seguridad a todos los padres de familia
 - PTA to get involved/
Involucrar al PTA (Asociación de padres y maestros)
 - Have a booth at school events to teach safety/
Tener una mesa en los eventos de la escuela donde se enseñe sobre seguridad
 - Educate parents through assemblies about the importance and benefits of walking either to school or around the field, tell parents why its so important so it becomes normal for them/
Educar a los padres de familia a través de asambleas donde se hable de la importancia y de los beneficios de caminar ya sea en la escuela o alrededor de la cancha, hablarle a los padres de la importancia para que sea normal para ellos.
- **Neighborhood and Drivers:/
*Comunidad y conductores:***
 - City’s public safety offers light up signs to put safety messages on to educate the community/
El departamento de seguridad de la ciudad ofrece cartelones de light up para poner mensajes de seguridad para educar a la comunidad
 - Make signs for neighbors yards/
Hacer cartelones para los patios frontales de los vecinos.

<p>Encouragement/ Motivación</p>	<ul style="list-style-type: none"> • Walking promotion/ <i>Promover el Caminar</i> <ul style="list-style-type: none"> ○ Have trophy awards similar to attendance award to reward active transportation/ <i>Tener premios en forma de trofeo de manera similar a los premios por asistencia para premiar a quienes utilicen transportación activa</i> ○ Have a logo contest to get students involved/ <i>Tener un concurso de logo para que los estudiantes se involucren</i> ○ Hold a walk to school day event/ <i>Organizar un evento del día de caminar a la escuela</i> <ul style="list-style-type: none"> • Invite friends to participate/volunteer/ <i>Invitar a amigos para que participen/sean voluntarios</i> ○ Look into getting pedometers for students/ <i>Ver si se pueden conseguir pedómetros para los estudiantes</i> ○ (Provide bicycle parking if students were allowed to ride)/ <i>Que haya estacionamiento para bicicletas en caso de que se les permita a los estudiantes utilizar sus bicicletas</i> ○ Implement walking punch cards/ <i>Implementar el uso de tarjetas de caminantes</i> ○ Establish walking school bus routes and schedules with volunteers/ <i>Establecer rutas para camiones caminantes y establecer horarios con la presencia de voluntarios</i>
<p>Enforcement/ Aplicación de Medidas</p>	<ul style="list-style-type: none"> • Law Enforcement (Sheriff's Department)/ <i>Medidas legales (Departamento del Sheriff)</i> <ul style="list-style-type: none"> ○ “ Respect our neighborhood” yard signs throughout the neighborhood to improve safety/ <i>Letreros que indiquen “respeta nuestro vecindario” en el patio de enfrente por todo el vecindario para mejorar la seguridad</i> ○ Engage volunteers to be “eyes on the street” with vests/ <i>Involucrar a voluntarios para que representen “ojos en la calle” y que lleven puesto algún chaleco</i> ○ Look into methods for improving afternoon pick-up strategies – maybe have students walk to a nearby park to get picked up/ <i>Ver métodos para mejorar las estrategias para recoger a los niños en la tarde – a lo mejor que algunos estudiantes caminen al parquet y allí los recojan</i> ○ Utilize mobile speed feedback trailers / <i>La utilización de tráiler que midan la velocidad de los vehículos</i> ○ Engage police dept. to give kids “caught being good” tickets with possible rewards for safe walking, wearing helmets, etc./ <i>Involucrar al departamento de policía para que implemente el “te atrape haciendo bien las cosas” y de tickets con posibles premios para quienes caminen de manera segura, utilicen cascos, etc.</i> ○ School is already recording license plates and giving warnings to drivers in addition to reporting to the law enforcement – could be model for other schools./ <i>La escuela ya está registrando las placas de los vehículos y dando advertencias a los</i>

<p>Enforcement/ Aplicación de Medidas</p>	<p>conductores además de reportarlos a la policía – puede ser un modelo par a las otras escuelas</p> <ul style="list-style-type: none"> ○ Signs near the school with safety messages, “please slow down” etc. (- the signs used during sand castles, contact Hank for use)/ <i>Letreros cerca de las escuela con mensajes de seguridad, “por favor reducir la velocidad” etc (las señales que se utilizan durante el evento de los castillos de arena, contactar a Hank para utilizarlos</i> ○ Engage nearby senior residents to be eyes on the street/volunteer with SRTS activities/ <i>Involucrar a la comunidad de la tercera edad par aquí sean ojos en la calle / voluntarios en actividades de rutas seguras a la escuela</i> <ul style="list-style-type: none"> ● Senior apts. nearby – work on engaging residents/ <i>Apartamentos para gente de la tercera edad están cerca – trabajar con los residentes más activos</i>
<p>Engineering Ingeniería</p>	<ul style="list-style-type: none"> ● Plan and install improvements around school for enhanced safety* / <i>Planeación e instalación de mejoras alrededor de la escuela para mejorar la seguridad*</i> <ul style="list-style-type: none"> ○ When seeking grants, pursue the undergrounding of utilities to make sidewalks wider and safer/ <i>Al buscar por financiamiento, buscar que los servicios se instalen bajo el suelo para hacer las banquetas más amplias y seguras\</i> ○ More school zone signage with flashing lights/ <i>Mas señalamientos de zona escolar con luces parpadeantes</i> ○ Establish suggested route to school maps based on community input to identify safe routes/ <i>establecer mapas con rutas recomendadas a la escuela basadas en la participación comunitaria para identificar las rutas más seguras</i> ○ Speed radar signs with flashing light when car is speeding – use these around the school/ <i>Señales con radar de velocidad y luces parpadeantes cuando los vehículos vayan a altas velocidades – utilizarse alrededor de la escuela</i>

* Imperial Beach Elementary merged with West View School to become Imperial Beach Charter School, the West View Campus became Imperial Beach West Campus of the Imperial Beach Charter School /
La Imperial Beach Elementary se unió a West View School para convertirse en Imperial Beach Charter School. El campus de West View se convirtió en el Imperial Beach West Campus de la Escuela Imperial Beach Charter School.

* Infrastructure improvements are not allowed under the Environmental Justice grant received by this program/
No se permiten mejoras de infraestructura en este programa de Justicia Ambiental

For more information please contact/ Para más información, por favor comuníquese con:

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Elm Avenue Improvement Project!

Traffic, Pedestrian, Bicyclist & Other Issues



WalkSanDiego, in partnership with the City of Imperial Beach conducted a workshop with 14 residents, SBUSD, City of Imperial Beach and WSD staff at the SBUSD Conference Rooms 1-3 located at 601 Elm Ave, Imperial Beach, CA 91932 on July 23, 2013 to identify issues happening on Elm Avenue between 4th and 7th Streets with the objective to gather community input to make this segment more accommodating and more equitable for pedestrians, bicycles and vehicles.

Workshop participants reported the following issues and possible solutions for improving each of these issues. (Please note that the numbers in parenthesis indicate the number of votes cast by attendees, thus determining level of priority.):

Issues Identified by Residents	Comments and Improvements Suggested
Location: Elm Avenue by South Bay Union School District (9 votes)	
<ul style="list-style-type: none"> a. Plants and planters on south sidewalk on south side are tripping hazards and obstruction b. Plants and planters on south sidewalk on south side are tripping hazards and obstruction c. Congestion (vehicles, bikes, pedestrians) hard to make a left into District office, fear of student injury 	<ul style="list-style-type: none"> a. Stampcrete, fill planters (4 votes) b. Green streets, buffer zone (4 votes) c. No comment provided by attendees (1 vote)
Location: Elm Avenue between 7th and 4th Street (6 votes)	
<ul style="list-style-type: none"> a. High vehicular speeds, conflicts between pedestrians, bicyclists and vehicles 	<ul style="list-style-type: none"> a. One way street (engineers to evaluate which way would be better), road diet, separate vehicles, bikes, peds (with green buffer zone) (6 votes)

Issues Identified by Residents	Comments and Improvements Suggested
Location: Elm Avenue (6 votes)	
<ul style="list-style-type: none"> a. No bike lanes b. North side of Elm Avenue sidewalk has too many dips and uneven surface c. Many cars obstructing view d. Need more street lighting 	<ul style="list-style-type: none"> a. Would like to see a bike/ped walkway with a greet stripe buffer to protect them from cars (2 votes) b. Leveled and wider sidewalk (2 votes) c. No parking allowed (2 votes) d. No comment provided by attendees
Location: Elm Avenue (east of 5th Street) (4 votes)	
<ul style="list-style-type: none"> a. On southside of Elm, people walking eastbound don't use sidewalk, rather walk behind cars parked on Mar Vista staff parking lot 	<ul style="list-style-type: none"> a1. Extend sidewalk (make a cut/connection) closer to parking), install a barrier to direct pedestrians to sidewalk (2 votes) a2. Push Mar Vista parking to the south and create a proper drop-off area and make it more pedestrian friendly, similar to Mar Vista Middle School (2 votes)
Location: Elm Avenue & 5th Street intersection (3 votes)	
<ul style="list-style-type: none"> a. Speeding, drivers not respecting stop sign, drainage issues b. No crosswalk on east side of the crossing and many students cross on that side c. Street flooding d. Trash 	<ul style="list-style-type: none"> a. Raised intersection, curb extension, more inlets for drainage, speed radar and flashing lights (2 votes) b. Needs crosswalk (1 votes) c. No comment provided [relates to bullet point a] d. City to identify elements to approach this issue
Location: Elm Avenue & Connecticut Street intersection (3 votes)	
<ul style="list-style-type: none"> a. School bus parking needed yet at same time, poor visibility for motorists b. School buses block visibility, when buses park too close to the intersection (1 vote) 	<ul style="list-style-type: none"> a. No comment provided by workshop attendees (2 votes) b. Create inlet bus areas to improve visibility, delineate/mark street to make it clear for everyone

Issues Identified by Residents	Comments and Improvements Suggested
Location: Elm Avenue in front of Mar Vista (1 vote)	
a. Drop off conflicts in Mar Vista staff parking area	a. Use Mar Vista alley and design a better pick up and drop off (1 vote)
Location: Alley between Mar Vista High School and SBUSD Office (0 votes)	
a. Area floods during heavy rains	a. City to identify solutions
Location: Elm Avenue & Corvina Street (0 votes)	
a. Vehicles cannot see oncoming traffic (moving westbound on Elm)	a. Improve view for pedestrians
Location: District Office Driveway (0 votes)	
a. Does not have sidewalk/walkways and it is dangerous for students/parents entering the rear of Imperial Beach Charter School	a. District issue

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Imperial Beach: Let's Move Together!
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IMPERIAL BEACH ELEMENTARY SCHOOL NEIGHBORHOOD/ VECINDARIO DE LA ESCUELA IMPERIAL BEACH
Pedestrian & Bicyclist Issues/ Temas de Peatones y Ciclistas

WalkSanDiego, in partnership with the City of Imperial Beach and the South Bay Union School District, conducted a community workshop with 16 residents, Sheriff Department staff and Public Works Department staff at Imperial Beach Elementary School located at 650 Imperial Beach Blvd., Imperial Beach, CA 91932 on March 1st, 2012 to identify pedestrian and bicyclist safety and access issues for residents living in the neighborhood surrounding Imperial Beach Elementary School (defined by school attendance boundary), with an emphasis on making it safer for children to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Escolar Unificado de South Bay realizaron un taller a la comunidad con 16 residentes y personal del departamento del Sheriff y del departamento de obras públicas en la Escuela Primaria Imperial Beach ubicada en 650 Imperial Beach Blvd., Imperial Beach, CA 91932 el 1ero de Marzo del 2012 para identificar problemas relacionados con la seguridad y acceso peatonal y ciclista para los residentes del vecindario de la Escuela Primaria Imperial Beach (definido por la frontera escolar de asistencia), con énfasis en la seguridad para que los niños caminen y vayan en bicicleta a la escuela.

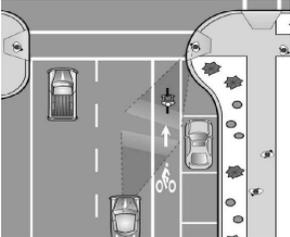
Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by residents, thus determining level of priority.):

Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los residentes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
1. Location/ Ubicación Imperial Beach Blvd. (31 votes)			
<p><u>Imperial Beach Boulevard:</u></p> <p>a. Bicyclists on sidewalk because it is safer for them to ride on sidewalk/ <i>Los ciclistas van en la banqueta porque es más seguro pedalear en la banqueta</i></p>  <p>b. During sunset, the planters can't be seen/ <i>Cuando se pone el sol no se pueden ver las macetas [áreas para plantas]</i></p>	<p><u>Imperial Beach Boulevard:</u> [Votes13]</p> <p>a. Install bike lane combined with planters, dividers separating bicyclists from vehicles/ <i>Poner carriles ciclistas combinados con las macetas (áreas para jardinería en la calle), divisores que separen a los ciclistas de los vehículos (11)</i></p> <p>b. Remove them [planters] and put dividers for bicycle lanes or put flashing lights on planters / <i>Quitarlas [areas de plantas] y poner una división para incluir carriles ciclistas o poner luces parpadeantes en las macetas [afeas para plantas] (2)</i></p>	<p><u>Imperial Beach Boulevard:</u></p> <p>a. I am in agreement. Bike lanes would be essential/ <i>Estoy de acuerdo. Los carriles ciclistas serian esenciales</i></p> <p>b. I am in agreement. Flashing lights are also very important/ <i>Estoy de acuerdo. Las luces parpadeantes también son muy importantes</i></p>	<p><u>Imperial Beach Boulevard:</u></p> <p>a. Bicycle Transportation Plan (BTP) has the western section of I.B. Blvd. with a Class 2 bike lane designation. City will be looking for possible grants to make this improvement/ <i>El Plan de Transporte Ciclista (BTP en ingles) designa la sección oeste de I.B. Blvd. con carriles ciclistas Clase 2. La ciudad buscara posibles fuentes de financiamiento para hacer estas mejoras.</i></p> <p>b. Consideration of this modification can be included when the Class 2 bike lane is installed/ <i>Se puede considerar incluir esta modificación cuando el carril ciclista tipo 2 sea instalado.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Imperial Beach E.S. Comments/ Comentarios de la Escuela Imperial Beach	City's Comments/ Comentarios de la Ciudad
<p>c. Sidewalks too narrow/ <i>Las banquetas están muy angostas</i></p> <p><u>Imperial Beach Blvd by front Entrance to IB Elementary:</u></p> <p>d. Many students crossing to south side of I.B. Blvd / <i>Muchos estudiantes cruzan al lado sur de Imperial Beach Blvd</i></p>  <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. Sidewalks around are too narrow, visibility problem on northeast corner due to overgrown vegetation, northwest ramp (gutter) is in bad condition and it is difficult for people in wheelchairs to go through/ <i>Las banquetas alrededor están muy angostas, problemas de visibilidad en la esquina noreste ya que la vegetación esta sobrecrecida, el desagüe en la rampa noroeste esta en malas condiciones y es difícil que la gente en silla de ruedas pueda pasar por allí</i></p>	<p>c. Extend sidewalks, install buffer zone or bike lanes with planters/ <i>Extender las banquetas, poner zonas de separación o carriles ciclistas con macetas [zonas para plantas]</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u> [Votes 9]</p> <p>d. Install a crosswalk combined with an island/ <i>Poner un cruce peatonal combinado con una isleta (9)</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u> [Votes 8]</p> <p>e. Extend sidewalks, City to request owners to trim vegetation, fix it/ <i>Extensión en las banquetas, que la Ciudad solicite a los dueños que poden la vegetación, arreglarlo (8)</i></p> 	<p>c. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u></p> <p>d. I am in agreement that the entrance to the school needs to be safer for students. The crosswalk is not easily seen by drivers turning right into the entrance/ <i>Estoy de acuerdo que la entrada a la escuela necesita ser más segura para los estudiantes. No es fácil que los conductores vean el cruce peatonal cuando dan vuelta a la derecha hacia la entrada.</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. I am in agreement. Just recently a driver hit a pedestrian at the cross walk. Visibility and the sun setting were both factors/ <i>Estoy de acuerdo. Recientemente un conductor golpeo a un peatón en el cruce peatonal. Tanto la visibilidad y la posición del sol fueron factores</i></p>	<p>c. This will be a challenge in certain sections of Imperial Beach Blvd., where the property line is coincident with the edge of the existing sidewalk. This is worth a study to determine solutions/ <i>Esto será un reto en ciertas sección de Imperial Beach Blvd., cuando el limite de la propiedad colinda con la banqueta existente. Valdría la pena un estudio para determinar las soluciones.</i></p> <p><u>Imperial Beach Blvd by Front entrance to IB Elementary:</u></p> <p>d. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p> <p><u>Imperial Beach Blvd. & Connecticut Street intersection:</u></p> <p>e. City will add this location to possible future improvement plans. <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. No crosswalk/ <i>No hay cruce peatonal</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. North side of Blvd sidewalk all of a sudden gets narrower/ <i>En el lado norte del Blvd la banqueta de repente se hace angosta</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. No crosswalk/ <i>No hay cruce peatonal</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. No sidewalk [on northwest corner]/ <i>No hay banqueta [en la esquina noroeste]</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u> [Votes 1]</p> <p>f. Install crosswalk/ <i>Poner un cruce peatonal (1)</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. Extend the sidewalk on that segment / <i>Extender la banqueta en ese segmento</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. Install crosswalk/ <i>Poner un cruce peatonal</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. Add sidewalk/ <i>Agregar banqueta</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Imperial Beach Blvd. & 4th Street intersection:</u></p> <p>f. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p> <p><u>Imperial Beach Blvd. between Delaware & 8th Street:</u></p> <p>g. This will be a challenge at some locations due to the lack of right-of-way/ <i>Esto será un reto en ciertas ubicaciones debido a la falta de derecho de vía.</i></p> <p><u>Imperial Beach Blvd. & 5th Street:</u></p> <p>h. City has an approved grant to construct a new crosswalk just west of 5th Street across from the Sports Park Recreation Center/ <i>La Ciudad ha sido aprobada con una fuente de financiamiento para construir cruce peatonal al oeste de 5th Street frente al Centro Recreativo Deportivo.</i></p> <p><u>Imperial Beach Blvd & Private Drive going to IB Elementary</u></p> <p>i. City will add this location to possible future improvement plans/ <i>La Ciudad incluirá esta ubicación al plan de posibles mejoras en el futuro.</i></p>
2. Location/ Ubicación			
Palm Avenue			
<p><u>Palm Avenue:</u></p> <p>a. Needs bike lanes / <i>Necesita carriles ciclistas</i></p> 	<p><u>Palm Avenue:</u> [Votes10]</p> <p>a. Add bike lanes/ <i>Agregar carriles ciclistas (10)</i></p> 	<p><u>Palm Avenue:</u></p> <p>a. I am in agreement that bike lanes should be added/ <i>Estoy de acuerdo que se deberían de incluir carriles ciclistas</i></p>	<p><u>Palm Avenue:</u></p> <p>a. City has received a grant that will add bike lanes to Palm Avenue along with improved pedestrian crosswalks and a road diet (reduction of traffic lanes from 4 to 2)./ <i>La Ciudad ha recibido una fuente de financiamiento para incluir un carril ciclista en Palm Avenue junto con mejoras en el cruce peatonal y una dieta de las calles (reducir el numero de carriles vehiculares de 4 a 2).</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Imperial Beach E.S. Comments/ <i>Comentarios de la Escuela Imperial Beach</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. Need crosswalks [it is] dangerous for kids to cross/ <i>Necesita un cruce peatonal [es] peligroso para que crucen los niños</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. Need crosswalks [it is] dangerous/ <i>Necesita un cruce peatonal [es] peligroso</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. Add crosswalks/ <i>Agregar cruces peatonales</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. Add crosswalks/ <i>Agregar cruces peatonales</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>b. I am in agreement/ <i>Estoy de acuerdo</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>c. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Palm Avenue & 4th Street intersection:</u></p> <p>a. See a. above/ <i>Ver el comentario a. arriba</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>b. See a. above./ <i>Ver el comentario a. arriba</i></p>
3. Location/ Ubicación (3 votes)			
<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. 9th does not have stop sign, but there is a crosswalk, it is confusing, traffic congestion pedestrians and cars at school pick up time / <i>La 9th street no tiene señal de alto, pero hay un cruce peatonal, es confuso, congestión vial (peatonal y vehicular) a la hora de recoger a los niños de la escuela.</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. Street parking creates visibility problems, very difficult for pedestrians to walk on that area/ <i>El estacionamiento vial ocasiona problemas de visibilidad, muy difícil para para caminar en esa área</i></p>	<p><u>Elm Avenue & 9th Intersection:</u> [Votes 2]</p> <p>a. Install a roundabout, traffic light, 4 way stop sign <i>Poner una glorieta, poner semáforo o alto en los cuatro sentidos (2)</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u> [Votes 1]</p> <p>b. No parking or have City to find an appropriate solution/ <i>No estacionarse o que la Ciudad encuentre soluciones apropiadas (1)</i></p>	<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. I agree that the installation of a 4-way stop sign would eliminate some of the confusion that occurs at this intersection/ <i>Estoy de acuerdo en que la instalación de señales de alto en los 4 sentidos eliminaría algunas de las confusiones que ocurren en esta intersección.</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. I am in agreement/ <i>Estoy de acuerdo</i></p>	<p><u>Elm Avenue & 9th Intersection:</u></p> <p>a. City will investigate with our Traffic Engineer consultant/ <i>La Ciudad investigara con nuestro consultor en Ingeniería de Transito</i></p> <p><u>Elm Avenue & 7th Street & Encina (T) intersection:</u></p> <p>b. City will investigate with our Traffic Engineer consultant/ <i>La Ciudad investigara con nuestro consultor en Ingeniería de Transito</i></p>

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MAR VISTA HIGH SCHOOL NEIGHBORHOOD/ *VECINDARIO DE LA ESCUELA MAR VISTA*
Pedestrian & Bicyclist Issues/ *Temas de Peatones y Ciclistas*

WalkSanDiego, in partnership with the City of Imperial Beach and the Sweetwater Union High School District, conducted 5 workshop with 77 Mar Vista H.S. Students at Mar Vista High School located at 505 Elm Avenue, Imperial Beach, CA 91932 during the JrROTC Program in periods 1, 2, 3, 5, and 6 on February 27th and 28th, 2012 to identify pedestrian and bicyclist safety and access issues for students and residents living in the neighborhood surrounding Mar Vista High School, with an emphasis on making it safer for students to walk and bike to school.

WalkSanDiego, en asociación con la Ciudad de Imperial Beach y el Distrito Unificado de Escuelas Preparatorias de Sweetwater realizaron 5 talleres con 77 Estudiantes de la Escuela Preparatoria Mar Vista ubicada en 505 Elm Avenue, Imperial Beach, CA 91932 durante los periodos 1, 2, 3, 5 y 6 de la clase del Programa JrROTC los días 27 y 28 de Febrero de 2012 para identificar problemas relacionados con la seguridad y acceso peatonal y ciclista para los residentes alrededor de la Escuela Preparatoria Mar Vista, con énfasis en la seguridad para que los estudiantes y residentes caminen y vayan en bicicleta a la escuela.

Workshop participants reported the following pedestrian issues and possible solutions for improving each of these pedestrian issues.

(Please note that the numbers in parenthesis indicate the number of votes cast by students, thus determining level of priority.):

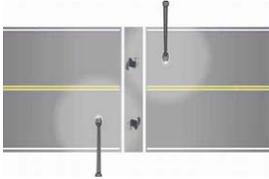
Los participantes del taller reportaron los siguientes temas peatonales y sus posibles soluciones para mejorar cada uno de estos temas peatonales.

(Por favor tomen nota que cada número en paréntesis indica los números de votos de los estudiantes, siendo así determinante el nivel de prioridad):

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/<i>Ubicación</i>		Imperial Beach Blvd. (82 votes)	
<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. People jaywalking to the IB sports park by bus stop/ <i>Gente que cruza la calle a mitad de la cuadra por la parada de autobús para ir al parque de deportes</i></p> 	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u> [Votes 43]</p> <p>a. Install a median crosswalk on IB Blvd and 5th St. intersection/ <i>Poner un cruce peatonal con camellón en la intersección de IB Blvd y 5th Street</i> (43)</p> 	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. by Mar Vista baseball fields:</u></p> <p>a. The construction of a crosswalk on I.B. Blvd. near 5th Street is funded and will be constructed within the next few months/ <i>La construcción de un cruce peatonal en Imperial Beach Boulevard cerca de 5th Street ha sido financiado y será construido dentro de los próximos meses.</i></p>

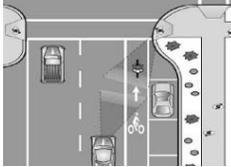
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. Intersections in between are not aligned and people don't go to major intersections to cross, not enough crosswalks in between and many pedestrians crossing (this situation creates a lot of conflicts between pedestrians, bicyclists and drivers)/ <i>Las intersecciones entre medio no están alineadas y la gente no va a las intersecciones principales para cruzar, no hay suficientes cruces peatones entre medio y mucha gente cruza (esta situación crea muchos conflictos entre peatones, ciclistas y conductores)</i></p>	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u> [Votes 13]</p> <p>b. Install medians all the way through (from 13th St to Coast View), install high visibility crosswalks, install type 2 bike lanes/ <i>Instalar camellones en todo el corredor (desde la 13th Street hasta Seacoast Drive), instalar cruces peatonales de alta visibilidad, instalar carriles ciclistas tipo 2 (13)</i></p> 	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. between 13th & 8th Street:</u></p> <p>b. Some medians have been installed on I.B. Blvd. Future median installation is dependent upon funding and right-of-way available. Portions of I.B. Blvd. are scheduled for Class 2 bike lane construction, the remainder is scheduled for Class 3 striping/ <i>Se instalaron camellones en I.B. Blvd. Se instalaran mas camellones en base al derecho de vía y al financiamiento disponible. En partes de I.B. Blvd se construirán carriles ciclistas tipo 2, y en el resto se construirán carriles ciclistas tipo 3.</i></p>
<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. Sidewalk on north side of IB is very narrow/ <i>Banqueta en la parte norte de IB está muy angosta</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u> [Votes 10]</p> <p>c. Make sidewalks bigger (wider)/ <i>Hacer banquetas más grandes [anchas] (10)</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Imperial Beach Blvd. between 8th Street & Delaware Street:</u></p> <p>c. This is a challenge due to the high retaining wall and immediately adjacent single family dwelling foundation. This issue will remain as an action item for future improvements/ <i>El muro de contención y los cimientos de la propiedad adyacente crean un reto. Este problema será considerado como tema de acción en futuras mejoras de infraestructura.</i></p>

<p style="text-align: center;">Issues Identified by Residents/ Temas Identificado por Residentes</p>	<p style="text-align: center;">Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes</p>	<p style="text-align: center;">Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista</p>	<p style="text-align: center;">City's Comments/ Comentarios de la Ciudad</p>
<p><u>IB Blvd. between 13th Street & Mar Vista H.S.</u></p> <p>d. Sidewalk too narrow right next to vehicles without buffer zones, too many car entrances & driveways, broken sidewalks due to tree roots / <i>Banquetas muy angostas junto a los vehículos sin que haya zonas de separación de los vehículos, demasiadas entradas vehiculares, Banquetas rotas debido a las raíces de los arboles</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.</u></p> <p>e. Sidewalk is too narrow/ <i>La banquet a es muy angosta</i></p>  <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. Sidewalks too thin/ <i>Las banquetas son muy delgadas</i></p> 	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u> [Votes 8]</p> <p>d. Put buffer zones, fix sidewalks make them more pedestrian friendly/ <i>Poner zonas de separación, arreglar las banquetas para que sea más amigable para los peatones (8)</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S. :</u> [Votes 3]</p> <p>e. Make more space for pedestrians/ <i>Hacer más espacios para los peatones. (3)</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u> [Votes 3]</p> <p>f. Wider sidewalks with a buffer zone/ <i>Banquetas más anchas con zona de separación (3)</i></p>	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.:</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>IB Blvd. from 13th St. to Mar Vista H.S.:</u></p> <p>d. Correction of this issue is a challenge. There is not sufficient right-of-way to install buffers between vehicle lanes and sidewalk/ <i>Es un reto corregir este problema. No hay suficiente derecho de vía para instalar una separación entre los vehículos y las banquetas.</i></p> <p><u>Imperial Beach Blvd corridor east of Mar Vista H.S.:</u></p> <p>e. See the above response/ <i>Ver la respuesta de arriba.</i></p> <p><u>Imperial Beach Blvd. between 4th Street & Seacoast Drive:</u></p> <p>f. See the above response/ <i>Ver la respuesta de arriba.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p>Imperial Beach Blvd.:</p> <p>g. Crosswalks aren't visible/ <i>Los cruces peatonales no son visibles</i></p>	<p>Imperial Beach Blvd.: [Votes 2]</p> <p>g. Add lighted crosswalks/ <i>Poner un cruce peatonal alumbrado (2)</i></p> 	<p>Imperial Beach Blvd.:</p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Imperial Beach Blvd.:</p> <p>g. All new crosswalks added to Imperial Beach Blvd. have been lighted. No additional lighting is planned for Imperial Beach Blvd./ <i>Todos los cruces peatonales nuevos agregados a I.B. Blvd han sido alumbrados. No hay planes de alumbrado público en Imperial Beach Boulevard.</i></p>
<p>Location/Ubicación</p>		<p>Palm Avenue (70 votes)</p>	
<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. Sidewalks have no buffer, infrequent crosswalks, not visible crosswalks/ <i>Las banquetas no tienen área de separación de los vehículos, cruces peatonales no frecuentes, cruces peatonales no visibles</i></p> 	<p>Palm Avenue - side streets west of M.V.H.S.: [Votes 24]</p> <p>a. Add buffer, add crossings for pedestrian, bright high visibility ladder crosswalks, lighted crosswalks/ <i>Agregar zona de separación, agregar cruce peatonal, cruce peatonal de alta visibilidad estilo escalera, cruce peatonal alumbrado(24)</i></p> 	<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Palm Avenue - side streets west of M.V.H.S.:</p> <p>a. The new Eco-Bikeway project construction will add lighted crosswalk at 5th Street intersection/ <i>La construcción del nuevo proyecto "Eco-Bike" incluirá un cruce peatonal con alumbrado público en la intersección con 5th Street.</i></p>

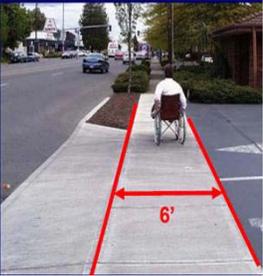
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. No sidewalk/ <i>No hay banqueta</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. No place for pedestrian on south side of street/ <i>No hay lugar para los peatones en el lado sur de la calle</i></p>  <p><u>Palm Avenue & Carolina Street intersection:</u></p> <p>d. No stop sign [on Palm Avenue]/ <i>No hay señal de alto[en Palm Avenue]</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u> [Votes 16]</p> <p>b. Install sidewalk/ <i>Instalar banqueta (16)</i></p>  <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u> [Votes 8]</p> <p>c. Install a sidewalk/ <i>Instalar una banqueta (8)</i></p> <p><u>Palm Avenue & Carolina Street intersection:</u> [Votes 5]</p> <p>d. Add stop sign/ <i>Agregar una señal de alto (5)</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & Carolina Street intersection (5):</u></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue between Delaware Street & 9th Street:</u></p> <p>b. New sidewalk is planned as part of the 9th & Palm Shopping Center construction/ <i>Hay planes de una nueva banqueta como parte de la construcción en el Centro comercial de 9th y Palm.</i></p> <p><u>Palm Avenue & 9th Street intersection by the old Goodwill Store:</u></p> <p>c. New sidewalk is planned as part of the 9th & Palm Shopping Center construction/ <i>Hay planes de una nueva banqueta como parte de la construcción en el Centro comercial de 9th y Palm.</i></p> <p><u>Palm Avenue & Carolina Street intersection (5):</u></p> <p>d. City does not support adding an additional stop sign at this intersection/ <i>La Ciudad no apoya el agregar una señal de alto en esta intersección.</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue (SR75) & 7th Street intersection:</u></p> <p>e. On the west side, there is no crosswalk and makes it a lot harder to cross/ <i>En el lado oeste, no hay cruce peatonal y hace que sea muy difícil cruzar</i></p> <p>f. Only one side of the intersection has a crosswalk/ <i>Solo un lado de la intersección tiene cruce peatonal</i></p>  <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. Narrow sidewalk, telephone poles broken in the middle of the sidewalk/ <i>Banquetas angostas, postes de teléfono rotos a la mitad de la banqueta</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. Cars go into bus lane, pedestrian has been hit/ <i>Los vehículos invaden el carril de los camiones, un peatón ha sido golpeado</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u> [Votes 5]</p> <p>e. Adding a cross walk and maybe shortening the wait time to prevent jaywalking/ <i>Agregar un cruce peatonal y a lo mejor reducir el tiempo de espera para prevenir que la gente cruce a la mitad de la calle (5)</i></p> <p>f. Include one more crosswalk on each side/ <i>Incluir un cruce peatonal mas en cada lado</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u> [Votes 4]</p> <p>g. Put a buffer zone. Fix telephone poll/ <i>Poner una zona de separación, arreglar el poste de teléfono (4)</i></p>  <p><u>Palm Avenue & 5th Street intersection:</u> [4 Votes]</p> <p>h. Paint the curb red to keep cars from stopping there/ <i>Pintar el borde de la banqueta de color rojo para prevenir que los vehículos se paren ahí (4)</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>f. See comment e. above/ <i>Ver el comentario e. arriba</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue (SR75) & 7th Street intersection (Stoplight):</u></p> <p>e. This is a CALTRAN issue/ <i>Este es un asunto para CALTRANS</i></p> <p>f. This is a CALTRANS issue/ <i>Este es un asunto para CALTRANS</i></p> <p><u>Palm Avenue between 5th Street & Rainbow Drive:</u></p> <p>g. Palm Avenue is not narrow in this área, so not sure what the concerns are/ <i>Palm Avenue no es angosta en esta área, no estoy seguro en relación a cual es el problema</i></p> <p><u>Palm Avenue & 5th Street intersection:</u></p> <p>h. Construction of new Eco Bikeway should resolve this issue/ <i>La construcción de la nueva Eco Bikeway debería resolver este problema</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue west of 7th Street:</u></p> <p>i. Cars driving east bound are still going too fast/ <i>Los vehículos en dirección este todavía van a altas velocidades</i></p>  <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. Sidewalk is narrow, not enough space for pedestrians/ <i>La banqueta es angosta, no hay suficientes espacios para los peatones</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. No buffer from cars, it's scary to walk/ <i>No hay espacio de separación de los vehículos, da miedo caminar</i></p> 	<p><u>Palm Avenue west of 7th Street:</u> [Votes 2]</p> <p>i. More speed limit signs with radar to make drivers aware that they must slow down/ <i>Mas señales de límite de velocidad con radar para hacer que los conductores estén mas conscientes de que deben reducir la velocidad (2)</i></p> <p><u>Palm Avenue & 13th Street intersection:</u> [Votes 1]</p> <p>j. Extend the sidewalk to make it safer/ <i>Extender la banqueta para que sea más seguro (1)</i></p>  <p><u>Palm Avenue just east of 13th Street:</u> [Votes 1]</p> <p>k. Add a buffer zone to sidewalk on both sides of palm through the corridor/ <i>Agregar una zona de separación en la banqueta en ambos lados del corredor de la Palm Avenue (1)</i></p>	<p><u>Palm Avenue west of 7th Street:</u> <u>Street:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue west of 7th Street:</u></p> <p>i. Construction of new Eco Bikeway should resolve this issue/ <i>La construcción de la nueva Eco Bikeway debería resolver este problema</i></p> <p><u>Palm Avenue & 13th Street intersection:</u></p> <p>j. This is CALTRANS right-of-way/ <i>Este derecho de vía es de CALTRANS.</i></p> <p><u>Palm Avenue just east of 13th Street:</u></p> <p>k. CALTRANS right-of-way/ <i>Derecho de vía es de CALTRANS.</i></p>

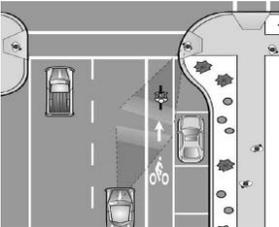
Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p><u>Palm Avenue corridor:</u></p> <p>l. The median looks bad/ <i>Los camellones se ven mal</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. The pedestrian signal takes too long so pedestrians walk against the light & it's too short to get across/ <i>La señal peatonal toma mucho tiempo entonces los peatones caminan en contra de la luz</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. Not enough places to cross/ <i>No hay suficientes lugares para cruzar</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. Redo the median/ <i>Volver a hacer los camellones</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. Retime the lights, add the leading pedestrian interval & big crossings/ <i>Revisar los tiempos de los semáforos, agregar la señal avanzada para peatones cruces amplios</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. More crosswalks that are high visibility/ <i>Mas cruces peatonales que sean de alta visibilidad</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue corridor:</u></p> <p>l. Not sure the issue with the median. These are regularly maintained in a neat and trimmed condition/ <i>Inseguro sobre el problema con el camellón. Tienen mantenimiento de manera regular y están limpias y podadas.</i></p> <p><u>Palm Avenue at main crossing 7th, 9th, 13th Streets:</u></p> <p>m. This is a CALTRANS right of way. City has been working with CALTRANS to make improvements, although this is not a high priority for CALTRANS/ <i>Derecho de vía es de CALTRANS. La Ciudad ha trabajado con CALTRANS para hacer mejoras, pero esto no es de alta prioridad para CALTRANS.</i></p> <p><u>Palm Avenue by I-5/SR75:</u></p> <p>n. This is a CALTRANS right of way and located in the City of San Diego. This is not something the City of Imperial Beach has any authority over/ <i>Derecho de vía de CALTRANS y ubicada en la Ciudad de San Diego. La Ciudad de Imperial Beach no tiene autoridad aquí.</i></p>

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<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. Sidewalks have no buffer, infrequent crosswalks not visible crosswalks/ <i>Las banquetas no tienen área de separación, cruces peatonales</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. No comment was provided by participating students/ <i>los estudiantes participantes no brindaron algún comentario</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Palm Avenue Side Streets west of Mar Vista</u></p> <p>o. Eco Bikeway project construction will add cross walks a 5th Street but not other streets on Palm. The City is considering the addition of other cross walks in the future/ <i>La construcción del proyecto Eco Bikeway incluirá cruces peatonales en 5th Street pero no en otras calles de Palm Ave. La Ciudad está considerando agregar otros cruces peatonales en el futuro.</i></p>
<p>Location/<i>Ubicación</i></p>	<p>Around Mar Vista H.S. (63 votes)</p>		
<p><u>Parking in front of the school:</u></p> <p>a. Dangerous for bikers & skaters caused by conflicts w/ vehicle backing out of parking spaces/ <i>Peligroso para los ciclistas y los patinadores causado por conflictos con los vehículos que dan en reversa para salir del estacionamiento</i></p> 	<p><u>Parking in front of the school:</u> [Votes 36]</p> <p>a. Take out parking & add bike racks and benches in its place, maybe make a bus-loading zone instead/ <i>Quitar el estacionamiento y agregar en su lugar racas para bicicletas y bancas, tal vez en su lugar una zona para abordar y desbordar de los camiones (36)</i></p>	<p><u>Parking in front of the school:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Parking in front of the school:</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p>

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<p><u>Back gate of school:</u></p> <p>b. Cars and people going in and out through a gate with no sidewalks/ <i>Vehículos y gente entrando y saliendo por la puerta y no hay banquetas</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. Drivers enter, creep into crosswalk and leave no room for pedestrians/ <i>Los conductores entran sin dares cuenta al cruce peatonal y no dejan espacio para los peatones</i></p>  <p><u>Teachers lot in front of school:</u></p> <p>d. Conflicts with cars/ <i>Conflictos con los vehículos</i></p>	<p><u>Back gate of school:</u> [Votes 26]</p> <p>b. Wider gate, sidewalk created apart from vehicle entrance, more clear lanes/ <i>Puerta más ancha, banqueta que este separada de la entrada vehicular, líneas más claras (26)</i></p>  <p><u>Exit only area from back parking lot:</u> [Votes 1]</p> <p>c. Drop off/pick up solution educate parents/ <i>Soluciones para zona de abordar y desabordar, educar los padres de familia (1)</i></p> <p><u>Teachers lot in front of school:</u></p> <p>d. Narrow the parking spaces/ <i>Hacer mas angostos los espacios de estacionamiento</i></p>	<p><u>Back gate of school:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Teachers lot in front of school:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Back gate of school:</u></p> <p>b. This is MVHS issue however, the City has engaged in discussions with school officials about making improvements to this area of the school/ <i>Este es un problema de MVHS sin embargo, la Ciudad se ha comprometido en discusiones con los oficiales de la escuela sobre el mejoramiento de esta área de la escuela.</i></p> <p><u>Exit only area from back parking lot:</u></p> <p>c. This is a MVHS issue/ <i>Este es un problema de MVHS.</i></p> <p><u>Teachers lot in front of school:</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p>

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Location/Ubicación		Elm Avenue (34 votes)	
<p><u>Elm Avenue in front of school</u></p> <p>a. Driveways w/o markings, Narrow sidewalks north side of street heading west, rolled curbs north side heading west/ <i>Entradas vehiculares sin marcaciones, banquetas angosta en el lado sur de la calle en dirección oeste, en el lado norte las orillas de la banqueta están inclinadas mirando hacia el oeste</i></p>  <p><u>Elm Avenue east of school entrance</u></p> <p>b. Bushes are in the way, not enough room for everyone/ <i>Los arbustos obstruyen el camino, no hay suficiente espacio para todos</i></p>	<p><u>Elm Avenue in front of school:</u> [Votes 9]</p> <p>a. Sign/mark driveways, widen sidewalks, make curbs 90°/ <i>Señales y entradas vehiculares marcadas, banquetas más anchas, bordes de banquetas de 90° (9)</i></p> <p><u>Elm Avenue east of school entrance:</u> [Votes 8]</p> <p>b. Pave over the space used for bushes to make the sidewalk wider/ <i>Pavimentar el espacio utilizado para arbustos para que la banqueta este más ancha (7)</i></p>	<p><u>Elm Avenue in front of school (9)</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue east of school entrance:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue in front of school (9)</u></p> <p>a. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p> <p><u>Elm Avenue east of school entrance:</u></p> <p>b. During the next year, the City will be meeting with MVHS officials, SBUSD officials and local residents over a series of meetings to see what improvements might be made on Elm Avenue between 4th and 7th Streets/ <i>El próximo año, la Ciudad, oficiales de MVHS y SBUSD y los residentes locales en una serie de reuniones evaluarán</i></p>

Issues Identified by Residents/ Temas Identificado por Residentes	Improvements Suggested by Residents/ Mejoramientos Sugerido por Residentes	Mar Vista HS Comments/ Comentarios de la Escuela Preparatoria Mar Vista	City's Comments/ Comentarios de la Ciudad
<p>c. Plants get in the way of the sidewalk and are not covered (like tree grates) and people have been hurt/ <i>Las plantas se obstruyen la banqueta y no están cubiertas (como rejillas para arboles) y gente se ha lastimado</i></p>  <p>d. Parked cars on street block the view when crossing/ <i>Los vehículos estacionados en la calle obstruyen la visibilidad cuando [la gente] cruza</i></p> <p><u>Elm Avenue & 7th Street intersection</u></p> <p>e. Road is compact [narrow], sidewalk is cracked and broken, cars turn the corner quickly/ <i>Vialidades compactas, banquetas rotas y con fisuras, los vehículos dan vueltas muy rápidas en las esquinas.</i></p>	<p>c. Plant grass where the bushes are, but make it narrower to leave room for pedestrians/ <i>Plantar césped en los lugares donde hay arbustos, pero hacerlo más angosto para permitir espacio para los peatones (1)</i></p> <p>d. Make it a no parking zone- paint the curb red/ <i>Hacer esta una zona de no estacionamiento – pintar los bordes de la banqueta color rojo</i></p> <p><u>Elm Avenue & 7th Street intersection:</u> [Votes 6]</p> <p>e. Buffer on sidewalk. Redo sidewalk. Curb extension to slow turning cars/ <i>Área de separación en la banqueta, volver a construir la banqueta, extensión en las esquinas para reducir la velocidad de los vehículos que dan vuelta (6)</i></p>	<p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue & 7th Street intersection:</u></p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><i>las mejoras que se podrían hacer en Elm Avenue entre 4th y 7th Streets</i></p> <p>c. See b. above/ <i>Ver punto b. arriba</i></p> <p>d. See b. above/ <i>Ver punto b. arriba</i></p> <p><u>Elm Avenue & 7th Street intersection:</u></p> <p>e. Improvements have recently made at this intersection with the recent street overlay project/ <i>Recientemente se hicieron mejoras en esta intersección con el proyecto de recubrimiento de las calles</i></p>

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<p>Elm Avenue & 5th Street intersection:</p> <p>f. [On] north corners cars turn and cut really close to the sidewalk and due to cars parked on the road, pedestrians cannot see oncoming traffic/ <i>Las esquinas en el norte [de la intersección] , los carros dan vuelta y giran muy cerca a la banqueta y debido a que hay vehículos estacionados en la vialidad los peatones no pueden ver el trafico que se aproxima</i></p> <p>g. That intersection gets really crowded before and after school due to people trying to pick up and drop off students. The congestion causes cars to focus more on getting through to intersection than not hitting students/ <i>Esa intersección se congestión antes y después de escuela debido a la gente que intenta recoger y dejar a los estudiantes en la escuela, el congestionamiento vial causa que los vehículos se enfoquen mas en cómo salir de la intersección en lugar de evitar golpear a los estudiantes</i></p>	<p>Elm Avenue & 5th Street intersection: [Votes 3]</p> <p>f. Extend the sidewalks and corners to allow [for] better visibility/ <i>Extender las banquetas y las esquinas para permitir que haya mejor visibilidad (3)</i></p>  <p>g. Take out the grass area by the marquee and create pick up/drop off zone/ <i>Quitar el área de jardinería por el letrero de la escuela y crear un área para abordar y desabordar pasajeros</i></p>	<p>Elm Avenue & 5th Street intersection:</p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Elm Avenue & 5th Street intersection:</p> <p>f. See b. above/ <i>Ver punto b. arriba</i></p> <p>g. See b. above/ <i>Ver punto b. arriba</i></p>

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<p>h. Trees cover signs/ <i>Los arboles obstruyen las señales</i></p> <p><u>Elm Avenue school corridor</u></p> <p>i. No space for bicyclist/ <i>No hay espacios para los ciclistas</i></p> <p>j. Parked cars block views when crossing/ <i>Vehículos estacionados obstruyen la visibilidad al cruzar.</i></p> <p><u>Elm Avenue west of school entrance at the small hill</u></p> <p>k. People come down hill fast, skateboarders skate in the middle of the street downhill/ <i>La gente va a altas velocidades en la subida, los skaters (patinadores) van a la mitad de la calle en la bajada</i></p> <p>l. Crossing is difficult for drivers to see/ <i>el cruce es muy difícil para que los conductores lo vean</i></p>	<p>h. Trim trees, tell the owners/ <i>Podar los arboles, decirle a los dueños</i></p> <p><u>Elm Avenue school corridor:</u> [Votes 3]</p> <p>i. Paint sharrows for increased safety of cyclists/ <i>Pintar flechas que indiquen carril compartido (de ciclistas y vehículos) para incrementar la seguridad de los ciclistas (3)</i></p> <p>j. Curb extension for better visibility/ <i>Extensiones en las esquinas para mejor visibilidad</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u> [Votes 3]</p> <p>k. Infrastructure to slow vehicles coming downhill/ <i>Infraestructura para reducir la velocidad de los vehículos que van de bajada (1)</i></p> <p>l. Add lights in the crosswalk to warn drivers that pedestrians are crossing/ <i>Agregar alumbrado en el cruce peatonal para advertir a los conductores de que hay peatones cruzando</i></p>	<p>h. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Elm Avenue school corridor:</u></p> <p>i. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>j. See h. above / <i>Ver punto h. arriba</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u></p> <p>k. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>l. See h. above / <i>Ver punto h. arriba</i></p>	<p>h. City will investigate and take corrective action where possible/ <i>La Ciudad investigara y tomara medidas correctivas cuando sea posible.</i></p> <p><u>Elm Avenue school corridor:</u></p> <p>i. See b. above/ <i>Ver punto b. arriba</i></p> <p>j. See b. above/ <i>Ver punto b. arriba</i></p> <p><u>Elm Avenue west of school entrance at the small hill:</u></p> <p>k. See b. above/ <i>Ver punto b. arriba</i></p> <p>l. See b. above/ <i>Ver punto b. arriba</i></p>

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<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. In the bushes there is trash & the sidewalk. The sidewalk is also too narrow/ <i>Hay basura en los arbustos y en las banquetas. La banquetta también está muy angosta</i></p> 	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>[Votes 2]</p> <p>m. Put trash cans along sidewalk where bushes are located and extend the sidewalk to make it easier to walk/ <i>Poner botes de basura sobre la banquetta en donde los arbustos están ubicados extender la banquetta para que sea más fácil caminar (2)</i></p>	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue in front of Alley East of Mar Vista H.S.:</u></p> <p>m. See b. above/ <i>Ver punto b. arriba</i></p>
<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. Road is too narrow. Parking on both sides of the street reduces space for bicyclist & creates conflicts/ <i>La calle es muy angosta, estacionamiento en ambos lados de la calle reducen el espacio para los ciclistas y se crean conflictos</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>[Votes 1]</p> <p>n. Prohibit [parking] (on school side) on south side of Elm & include a dedicated bike lane class 2/ <i>Prohibir [el estacionamiento](en el lado de la escuela) al lado sur de Elm Avenue e incluir un carril para ciclistas clase 2 (1)</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue between Carolina Street & 4th Street:</u></p> <p>n. See b. above/ <i>Ver punto b. arriba</i></p>
<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. No stop sign for pedestrians; cars – pedestrians conflict/ <i>No hay señal de alto para los peatones – conflicto entre peatones y vehículos</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>[Votes 1]</p> <p>o. Install stop signs/ <i>Instalar señales de alto(1)</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Elm Avenue & Carolina Street intersection:</u></p> <p>o. See b. above/ <i>Ver punto b. arriba</i></p>

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<p>Elm Avenue:</p> <p>p. Crosswalks aren't visible enough/ <i>Los cruces peatonales no son lo suficientemente visibles</i></p>	<p>Elm Avenue: [Votes 1]</p> <p>p. Lighted crosswalks / <i>Cruces peatonales alumbrados (1)</i></p>	<p>Elm Avenue:</p> <p>p. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Elm Avenue:</p> <p>p. See b. above/ <i>Ver punto b. arriba</i></p>
Location/Ubicación Throughout city of Imperial Beach (21 votes)			
<p>Throughout City of Imperial Beach:</p> <p>a. It's too dark, cars can't see the pedestrians/ <i>Es muy oscuro, los vehículos no pueden ver a los peatones</i></p> <p>b. Vehicles going fast and not respecting pedestrians even on minor streets/ <i>Vehículos van a altas velocidades y no respetan a los peatones aun en calles menores</i></p> <p>c. Can't see the lane dividers and lane markings/ <i>No se pueden ver las líneas que dividen los carriles en el pavimento</i></p>	<p>Throughout City of Imperial Beach: [Votes 18]</p> <p>a. Human scale lighting/ <i>Alumbrado a escala humana (18)</i></p> <p>b. Install traffic calming elements/ <i>Instalar elementos para reducir las velocidades</i></p> <div data-bbox="716 1068 940 1237" data-label="Image"> </div> <p>c. Repaint the lanes throughout the City/ <i>Volver a pintar las líneas en toda la Ciudad</i></p>	<p>Throughout City of Imperial Beach</p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>b. See h. above / <i>Ver punto h. arriba</i></p> <p>c. See h. above / <i>Ver punto h. arriba</i></p>	<p>Throughout City of Imperial Beach</p> <p>a. This will require a vote of the residents/owners to create a lighting assessment district/ <i>Esto requerirá un voto de los residentes/propietarios para crear un distrito donde se les cobre el alumbrado</i></p> <p>b. Traffic calming is an ongoing effort throughout the City/ <i>La reducción de velocidades es un esfuerzo alrededor de la Ciudad.</i></p> <p>c. The Public Works Department restripes all pavement markings annually/ <i>El Departamento de Obras Publicas hace marcaciones en el pavimento de manera anual.</i></p>

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<p>Major Roads:</p> <p>d. High [number of] accidents [at] intersections/ <i>Intersecciones con alto [numero de] accidentes</i></p> <p>Through City's traffic light:</p> <p>e. No countdown pedestrian signals/ <i>No hay semaforización peatonal con cuenta regresiva</i></p>	<p>Major Roads: [Votes 2]</p> <p>d. Place speed feedback trailers and actually ticket drivers/ <i>Poner tráiler con radares de velocidad y multar a conductores (2)</i></p> <p>Through City's traffic light: [Votes 1]</p> <p>e. Countdown pedestrians signals/ <i>Semáforos peatonales con cuenta regresiva (1)</i></p>	<p>Major Roads:</p> <p>d. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p>Through City's traffic light</p> <p>e. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p>Major Roads:</p> <p>d. Public Safety Dept. currently uses the speed trailer as often as possible. We will renew our efforts to enhance this program/ <i>El Departamento de Seguridad Pública actualmente utilice tráileres para medir la velocidad tanto como sea posible. Volveremos esforzarnos para mejorar este programa.</i></p> <p>Through City's traffic light</p> <p>e. The two intersections on I.B. Blvd. which the City owns does have the count-down pedestrian signals. The pedestrian signals on Palm Avenue/S.R. 75 belong to CALTRANS. The City as encouraged CALTRANS to install count-down lights and will continue to do so/ <i>Las dos intersecciones en I.B. Blvd. que son propiedad de la Ciudad cuentan con contadores en los semáforos peatonales. Los semáforos peatonales en Palm Avenue/S.R. 75 pertenecen a CALTRANS. La Ciudad ha pedido a CALTRANS que instales contadores peatonales en los semáforos y continuara haciéndolo.</i></p>

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<p><u>Throughout IB. Especially in front of the school:</u></p> <p>f. It is really dark, especially in winter when leaving school/ <i>Esta muy oscuro, especialmente en tiempo de invierno a la salida de la escuela</i></p> <p><u>Alleys throughout City</u></p> <p>g. Fences are all the way to the corner creating blind spots, bushes need to be trimmed/ <i>Las bardas llegan hasta la esquina creando espacios ciegos, los arbustos necesitan ser podados</i></p>	<p><u>Throughout IB. Especially in front of the school:</u></p> <p>f. Add human scaled lighting/ <i>Agregar más alumbrado a escala humana</i></p> <p><u>Alleys throughout City</u></p> <p>g. City to create and implement City rules to address this problem, property owners to trim trees and bushes, City to enforce it/ <i>Que la Ciudad cree e implemente reglamentos que solucionen este problema, los dueños de la propiedad que poden los arboles y los arbustos, que la Ciudad apliqué las reglas</i></p>	<p><u>Throughout IB. Especially in front of the school</u></p> <p>f. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Alleys throughout City</u></p> <p>g. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Throughout IB. Especially in front of the school</u></p> <p>f. This will require a vote of the property owners to approve a lighting assessment district/ <i>Esto requerirá un voto de los residentes/propietarios para crear un distrito donde se les cobre el alumbrado</i></p> <p><u>Alleys throughout City</u></p> <p>g. The City will assist in this effort as time and resources are available/ <i>La Ciudad asistirá en este esfuerzo conforme haya tiempo y recursos disponibles.</i></p>

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Location/<i>Ubicación</i> 13th Street (10 votes)			
<p><u>13th Street between Imperial Beach Blvd. & Naval Base</u></p> <p>a. Visibility, cars driving too fast and don't see pedestrians crossing/ <i>Visibilidad, vehículos van muy rápido y no ven a los peatones cruzando</i></p> 	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u> [Votes 10]</p> <p>a. Install bulbouts at intersections, add speed radars so people know they are going fast/ <i>Instalar extensiones en las esquinas de la intersección, agregar radares de velocidad para que la gente sepa que van rápido (10)</i></p> 	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>13th Street between Imperial Beach Blvd. & Naval Base:</u></p> <p>a. Speeding will be referred to Public Safety. Bulb-outs may be considered during the next major Street improvement Project on 13th Street/ <i>Las velocidades se referirán a Seguridad Pública. Las extensiones en las esquinas podrían considerarse durante los siguientes proyectos en mejoras de infraestructura en 13th Street.</i></p>
Location/<i>Ubicación</i> 8th Street (5 votes)			
<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. No sidewalk/ <i>No hay banquetas</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u> [Votes 5]</p> <p>a. Install sidewalks/ <i>Instalar banquetas (5)</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>8th Street between Elm Avenue & Palm Avenue:</u></p> <p>a. There is sidewalk in these blocks/ <i>Si hay banquetas en estas calles.</i></p>

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Location/Ubicación Florida Street (5 votes)			
<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. Visibility problems because cars park too close to the corner, visibility problems because it is hilly, very dark at night/ <i>Problemas de visibilidad ya que los vehículos se estacionan muy cerca de la esquina, problemas de visibilidad porque hay subidas, muy oscuro en la noche</i></p> 	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u> [Votes 5]</p> <p>a. Paint red zone areas close to corner, curb extensions, install human scale lights/ <i>Pintar áreas con zona roja cerca de la esquina, extensiones en las esquinas, instalar alumbrado a escala humana (5)</i></p> 	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Florida Street between Imperial Beach Blvd. & Palm Avenue:</u></p> <p>a. These ideas may be considered during the next major street improvement on Florida Street/ <i>Estas ideas podrían considerarse durante las siguientes mejora de infraestructura en Florida Street.</i></p>
Location/Ubicación Encina Avenue (5 votes)			
<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. Narrow sidewalk obstructed by power pole and overgrown bushes from properties/ <i>Banquetas angostas obstruidas por el poste de la luz y por vegetación sobrecrecida desde las propiedades</i></p>	<p><u>Encina Avenue east of 7th Street:</u> [Votes 3]</p> <p>a. Remove pole, city to request property owners to trim bushes/ <i>Remover el poste, que la ciudad solicite a los dueños de la propiedad que pode el árbol (3)</i></p>	<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Encina Avenue east of 7th Street:</u></p> <p>a. Sidewalk on Encina is only on the south side of the street and that sidewalk is already 8-foot wide in most places. We will refer the bush interference to Code Compliance Division/ <i>Solo hay banqueta en la parte sur de Encina y esa banqueta es de 8 pies de ancho en la mayor parte. Se referirá la interferencia de los arbustos a la División de Aplicación de los Códigos.</i></p>

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<p><u>Encina Avenue between 7th & 8th Streets:</u></p> <p>b. Inclined hill, cars can't see pedestrians/ <i>Pendiente inclinada, los conductores no pueden ver a los peatones</i></p>  <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Too narrow, fence blocks pedestrians, hard to walk/ <i>Muy angostas, la cerca/barda obstruye a los peatones, es difícil caminar</i></p>	<p><u>Encina Avenue between 7th & 8th Streets:</u> [Votes 2]</p> <p>b. Slow down signs, lights & warning signs/ <i>Señales de reducir la velocidad, alumbrado y señales de advertencia. (2)</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Make more space for pedestrians walking near the park/ <i>Hacer más espacio para peatones caminando cerca del parque</i></p>	<p><u>Encino Avenue between 7th & 8th Streets:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Encino Avenue between 7th & 8th Streets:</u></p> <p>b. Will refer this to Traffic Engineer for analysis / study when funds are available/ <i>Se referirá esto a Ingeniería de Transito para análisis/estudio cuando haya fondos disponibles.</i></p> <p><u>Encina Avenue near Veterans Park</u></p> <p>c. Will study this when funds are available/ <i>Se hará un estudio cuando haya fondos disponibles.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/Ubicación	5th Street (2 votes)		
<u>5th Street between Elm Avenue & Palm Avenue:</u> a. When it rains it gets flooded and students have to walk on the street/ <i>Cuando llueve se inunda y los estudiantes tienen que caminar en la calle</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> [Votes 2] a. Raise sidewalks higher, install safer and more efficient drainage, install median/ <i>Elevar las banquetas, instalación de drenaje más seguro y eficiente, instalación de un camellón (2)</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i>	<u>5th Street between Elm Avenue & Palm Avenue:</u> a. Flooding is a challenge in Imperial Beach due to the low, flat elevation throughout. Raising sidewalks is generally not a good solution since that will tend to trap water on private property rather than let it drain off the property/ <i>Las inundaciones son un reto en Imperial Beach debido a la baja elevación y a que esta plano. Elevar las banquetas regularmente no es una Buena solución ya que ocasionaría que se estancara el agua en propiedades privadas en vez de que se vaya al drenaje de la propiedad.</i>
Location/Ubicación	Fern Avenue (2 votes)		
<u>Fern Avenue & 11th Street intersection:</u> a. A street light is messed up [not working]/ <i>Una luz del alumbrado público no sirve</i>	<u>Fern Avenue & 11th Street intersection:</u> [Votes 2] a. Fix it/ <i>Arreglarla (2)</i>	<u>Fern Avenue & 11th Street intersection:</u> a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i>	<u>Fern Avenue & 11th Street intersection:</u> a. City will notify SDG&E for repair/ <i>La Ciudad notificará a SDG&E para que la reparen.</i>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/Ubicación Sea Coast Drive (1 vote)			
<p><u>Seacoast Drive Corridor:</u></p> <p>a. Sidewalks are broken, street is crowded, people jaywalk, it's hard to get across/ <i>Las banquetas están rotas, las calles están llenas, gente cruza entre las calles, es difícil cruzar</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. The crossing is a yield sign, no stop sign, so it's hard for pedestrians to cross/ <i>El cruce es solo una señal de ceder el paso, no hay señales de alto por lo que es difícil que los peatones crucen</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p style="text-align: right;">[Votes 1]</p> <p>a. Make better connections, more frequent crossings, better sidewalks/ <i>Hacer mejores conexiones, cruces más frecuentes, mejores banquetas (1)</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. Make it a stop sign instead so pedestrians can cross easier/ <i>Mejor poner una señal de alto para que los peatones puedan cruzar más fácilmente</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Sea Coast Drive Corridor:</u></p> <p>a. Seacoast Drive has recently been rebuilt making the area more walkable/ <i>Seacoast Drive recientemente fue reconstruida para hacerla mas caminable</i></p> <p><u>Seacoast Drive & Imperial Beach Blvd. intersection:</u></p> <p>b. This is a 4-way stop intersection/ <i>Esta es una intersección con señales de alto en 4 sentidos.</i></p>
Location/Ubicación Carolina Street (0 votes)			
<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. When it rains it gets flooded and students have to walk on the street/ <i>Cuando llueve se inunda y los estudiantes tienen que caminar en la calle</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. Raise sidewalks higher, install safer and more efficient drainage, install median/ <i>Elevar las banquetas, instalación de drenaje más seguro y eficiente, instalación de un camellón</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>Carolina Street between Elm and Palm Avenue</u></p> <p>a. The City is at a low elevation and flat. Flooding is a problem, however raising sidewalk will potentially create a drainage problem from adjacent private properties/ <i>La Ciudad está a una elevación baja y plana. Las inundaciones son un problema, el elevar las banquetas podrían crear un problema en las propiedades adyacentes.</i></p>

Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	Mar Vista HS Comments/ <i>Comentarios de la Escuela Preparatoria Mar Vista</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Location/Ubicación 10th Street (0 votes)			
<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. Parking lot doesn't have enough space for vehicles to be able to get in and out without conflict, visibility problems/ <i>El lote del estacionamiento no cuenta con suficiente espacio para que los vehículos puedan ingresar y salir sin que haya conflictos, problemas de visibilidad</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. City to implement better land use/ <i>Que la ciudad implemente mejores usos de suelo</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. No comments provided by school representative/ <i>Los representantes de la escuela no brindaron comentarios</i></p>	<p><u>10th Street between IB Blvd & Fern Avenue intersection (by Sussex and Hawaiian Garden Apartments):</u></p> <p>a. This is all private property and does not belong to the City / <i>Es propiedad privada y no pertenece a la Ciudad.</i></p>

Locations outside City of Imperial Beach/ Ubicación fuera de la Ciudad de Imperial Beach:

Location/ <i>Ubicación</i>	Issues Identified by Residents/ <i>Temas Identificado por Residentes</i>	Improvements Suggested by Residents/ <i>Mejoramientos Sugerido por Residentes</i>	City's Comments/ <i>Comentarios de la Ciudad</i>
Tocayo Ave & Oro Villa Vista (Not in City of Imperial Beach)	<p>We need more lights, colorful plants & stores in case people are starving for more nutrients, also in the middle of the intersection at Oro Villa Vista [need] more crosswalks for people to walk with greater ease and more parks/ <i>Necesitamos más luces, plantas coloridas y mas tiendas en caso de que la gente este en busca de alimentos, además a mitad de la intersección de Oro Vista [poner] mas cruces peatonales para que la gente camine con más facilidad</i></p>	<p>Basically for people with slight focus of seeing and for people who need physical fitness/ <i>Básicamente para gente con visión ligeramente enfocada y para la gente que necesita ejercicio físico</i></p>	<p>Not City of Imperial Beach Jurisdiction/ <i>No está dentro de la jurisdicción de la Ciudad de Imperial Beach</i></p>

For more information please contact / Para más información, por favor comuníquese con:

City of Imperial Beach
Hank Levien
619.423-8311
HLevien@CityofIB.org
www.cityofib.com



WalkSanDiego
Juan Antonio Ramirez
619.544.WALK (9255)
jaramirez@walksandiego.org
www.walksandiego.org





Elm Avenue Improvement Project!

Traffic, Pedestrian, Bicyclist & Other Issues



WalkSanDiego, in partnership with the City of Imperial Beach conducted the second of three workshops with 20 residents, SBUSD, City of Imperial Beach and WSD staff at the SBUSD Conference Rooms 1-3 located at 601 Elm Ave, Imperial Beach, CA 91932 on August 13, 2013 with the purpose to follow up and review the comments provided by residents. The engineering consultant developed a drawing that reflected the input provided in workshop number 1 in regards to Elm Avenue between 4th and 7th Streets. The objective of this workshop was to gather a second set of input and to receive input based on this draft design with the purpose to make this segment more accommodating and more equitable for pedestrians, bicycles and vehicles.

Workshop participants reported the following issues and comments for each of these issues.:

Issues Identified by Residents	Comments and Improvements Suggested
Properties around project are:	<ul style="list-style-type: none"> ○ Participant would like to see projects that minimize the impact on people’s properties. Resident expressed a concern based on a previous experience where he had to install a new fence as a result of the City working in the front of his property.
Parking lot to the west of the library:	<ul style="list-style-type: none"> ○ Few residents indicated that the parking lot located west of Mar Vista High School is underutilized; instead students and/or school visitors park on Elm Avenue (street parking).
Public Lighting:	<ul style="list-style-type: none"> ○ Participant expressed that after a public lighting improvement was done close to his home, the light coming from the street light gets directly to his property creating an uncomfortable situation.
Separated bike lanes:	<ul style="list-style-type: none"> ○ Few (about 3) participants expressed interest in having a separated pedestrian paths and bicycle lanes. ○ One resident indicated that would not like to see many buffer zones as she considers it is a waste of space. ○ A couple of participants indicated that bicyclists and pedestrians can “coexist” using one shared lane. ○ A participant indicated that many students are skaters, as well as himself, and as a skater he would use the smoothest texture, also that it is more attractive for skaters to travel on surfaces without the expansion joints used in concrete sidewalks.

Drainage:	<ul style="list-style-type: none"> ○ Participant indicated that would like to see the drainage problem solved, not just being improved every year. Participant commented that the City has been digging up the street to make drainage improvements for the past five summers and that it is very disruptive and the drainage problem has not yet been fixed.
Elm Avenue & 5th Street intersection:	<ul style="list-style-type: none"> ○ A resident expressed a concern that changing the street configuration to a one way lane could increase vehicular back ups on 5th Street north of Elm Avenue, she expressed interest in having City implement an improvement that would solve this problem. ○ Mar Vista student indicated that there are many drop off issues on 5th Street & Elm Avenue intersection, he expressed a concern that anything done would still have people dropping off students wherever they want and that there is a need for enforcement.
Mar Vista staff parking on Elm Avenue:	<ul style="list-style-type: none"> ○ Resident indicated that Mar Vista’s staff parking creates many conflicts and that staff could use parking lot on the west of the school. ○ Sheriff does not enforce parking and drop off behind the staff parking lot on Elm Avenue ○ A resident expressed an idea to use that area as drop off area <ul style="list-style-type: none"> ▪ Jeannette Ford from SBUSD indicated how Nestor Elementary and Mendoza Elementary which are located in major streets reconfigured their drop-off and pick up zones by opening a path that would allow two vehicles to go through at the same time improving the drop-off and pick-up procedure. <ul style="list-style-type: none"> • The group agreed that in order to achieve this, the Sweetwater Union High School District should have a higher level of engagement.
Parking lot on Imperial Beach Boulevard (by the gym):	<ul style="list-style-type: none"> ○ Residents indicated that the access to the east of Mar Vista (by the gym) as an opportunity to improve the drop-off and pick up procedures (Commander Hatfield provided a sketch of what could be done).
Access on the east edge of Mar Vista High School:	<ul style="list-style-type: none"> ○ Resident indicated that she lives next to Mar Vista HS and start & end of school day she is concerned about backing out of her driveway because she is afraid she might hit a student – she supported the idea of using Mar Vista access on east of the school.

Bicycle parking:	<ul style="list-style-type: none"> ○ Mar Vista student indicated that more kids are using the bicycles and skateboards, but there is not enough secure storage to keep bikes safe during school hours.
General project concern:	<ul style="list-style-type: none"> ○ A resident indicated concern that the City would be using a lot of funds to make this project happen, he believes many of the issues can be solved with less expensive treatments and that there are other areas in the City where there are higher needs, for examples streets without sidewalks.
General remarks.	<ul style="list-style-type: none"> ○ Many participants agree or liked the idea of a one way street

For more information please contact / Para más información, por favor comuníquese con:

City of Imperial Beach
Hank Levien
619.423-8311
HLevien@CityofIB.org
www.cityofib.com



WalkSanDiego
Juan Antonio Ramirez
619.544.WALK (9255)
jaramirez@walksandiego.org
www.walksandiego.org





OFFICE OF THE SUPERINTENDENT

1130 Fifth Avenue • Chula Vista, California 91911-2896

(619) 691-5555 • FAX (619) 498-1997

Edward M. Brand, Ed.D.
Superintendent

April 30, 2014

CALTRANS
Division of Local Assistance, MS 1
Attn: Office of Active Transportation and Spec. Program
P.O. Box 942874
Sacramento, CA 94274

Dear CALTRANS:

On behalf of the Sweetwater Union High School District, I would like to offer our support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

Safety is a critical factor in our schools and in our communities. This project will significantly improve school ingress and egress safety to access in the City of Imperial Beach and will have wide-ranging safety benefits to Mar Vista High School as well as the surrounding community, bus access, pedestrians and cyclists.

With the widening of the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair access, safety will be increased and getting to and from school will be a much easier task. A designated school bus stop lane, and constructing road improvements will reduce vehicular speed and improve traffic flow along Elm Avenue.

We ask the Active Transportation Program to seriously consider grant funding for this important project to improve the paths of travel to our schools and in our community. This project will positively affect the safety of students, pedestrians, cyclists, disabled and school buses as well as the entire community. Thank you!

Sincerely,

Edward M. Brand, Ed.D.
Superintendent

The Sweetwater Union High School District will fulfill the promise of 100% student success.

Sweetwater Union High School District programs and activities shall be free from discrimination based on gender, sex, race, color, religion, ancestry, national origin, ethnic group identification, marital or parental status, physical or mental disability, sexual orientation or the perception of one or more of such characteristics.

SUHSD Board Policy 0410.



SOUTH BAY UNION SCHOOL DISTRICT

601 Elm Avenue • Imperial Beach, California 91932-2098
(619) 628-1600 • Fax: (619) 628-1608

April 30, 2014

CALTRANS

Division of Local Assistance, MS 1

Attn: Office of Active Transportation and Spec. Prog.

Teresa McWilliam

P.O. Box 942874

Sacramento, CA 94274

Dear Ms. McWilliam,

On behalf of The Board of Trustees of the South Bay Union School District, I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Charter School.

The City of Imperial Beach hosted several community forums at South Bay Union School District offices on Elm Avenue, to allow for input from community members and stakeholders. All ideas and concerns related to the problematic traffic flow on Elm Avenue were welcomed. South Bay Union School District has worked with the City of Imperial Beach on a number of different traffic improvement projects, including Safe Routes to School. The City of Imperial Beach regularly reaches out to the community in an effort to improve the ingress and egress of traffic in and around the school sites.

Currently, the traffic flow through Elm Avenue in front of the Imperial Beach Charter School creates a number of hazards (including, but not limited to) the following:

- School bus parking blocks visibility of students utilizing the crosswalk at Elm Avenue & Carolina Street.
- Parent drop off is not clearly designated, allowing for congestive vehicular traffic.
- Bicyclists/skateboarders do not have a designated lane to travel in, increasing the risk of student injury.
- Pedestrian traffic is limited to existing sidewalk space and is inadequate for the number of students utilizing this mode of transportation.
- Cross traffic (driveways and side streets) have difficulty entering/exiting with existing traffic flow and congestion of mixed modes of travel.
- Active transportation is not enticing with this mix of problematic interactions.

By improving the visibility of students utilizing active transportation modes, our students have a greater chance at arriving safely to their destination. With improvements, students and community members will be encouraged to utilize active transportation having a direct effect on their health and academic success.

Board of Trustees

Melanie Ellsworth • Chris Brown • Barbara Elliot-Sanders • Nicholas Inzunza • Elvia Aguilar

Superintendent

Katie McNamara, Ed.D.



SOUTH BAY UNION SCHOOL DISTRICT

601 Elm Avenue • Imperial Beach, California 91932-2098
(619) 628-1600 • Fax: (619) 628-1608

The proposed improvements will significantly improve school ingress and egress safety to access in the City of Imperial Beach and will have wide-ranging safety benefits to our schools, the surrounding community, bus access, pedestrians and cyclists. The project will include widening the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair access, separating designated bike/pedestrian/wheelchair access way from vehicular traffic through curbing and landscaping, adding a designated school bus stop lane, and constructing road improvements to reduce vehicular speed and improve traffic flow.

I urge the Active Transportation Program to approve grant funding for this important project to improve the paths of travel to our schools and in our community. This project will positively affect the safety of students, pedestrians, cyclists, disabled and school buses as well as the community by incorporating much needed safety and traffic calming measures on Elm Avenue.

Sincerely,

Abdollah Saadat
Assistant Superintendent, Business Services
South Bay Union School District

Board of Trustees

Melanie Ellsworth • Chris Brown • Barbara Elliot-Sanders • Nicholas Inzunza • Elvia Aguilar

Superintendent

Katie McNamara, Ed.D.



Mar Vista High School

505 Elm Avenue
Imperial Beach, CA 91932
(619) 628-5700 Fax (619) 424-6232

May 9, 2014

CALTRANS

Division of Local Assistance, MS 1

Attn: Office of Active Transportation and Spec. Program.

P.O. Box 942874

Sacramento, CA 94274

Wes Braddock
Principal

Amy Hunt
David Mitrovich
Kevin Willard
Assistant Principals

Kenya Bratton
Psychologist

Dear CALTRANS:

I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

As Principal of Mar Vista Elementary, I have a strong interest for this project to come to fruition. The current inadequacies of sufficient pedestrian and bicycle infrastructure and corresponding safety issues inhibits students from using active modes of transportation.

I have been involved in several of the public involvement community meetings sponsored by the City of Imperial Beach. In addition in 2012, 77 Mar Vista High School students participated in several rigorous workshops to identify pedestrian and bicyclist safety and access issues for students and residents living in the neighborhood surrounding Mar Vista High School, with an emphasis on making it safer for students to walk and bike to school. The problems identified include the lack of designated bike/skateboard lanes, limited room for pedestrians on sidewalks, high vehicular speeds on Elm Ave., road flooding in certain areas, poor designation of parent drop off area, limited pedestrian/traffic visibility due to school bus parking (on Elm Ave and Carolina) and personal vehicle parking in front of school which limits visibility and.

The improvements planned as part of this project, will include widening the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair access, separating designated bike/pedestrian/wheelchair access way from vehicular traffic through curbing and landscaping, adding a designated school bus stop lane, new bike racks and constructing road improvements to reduce vehicular speed and improve traffic flow.

The proposed improvements will significantly improve school ingress and egress safety for the students of Mar Vista High School will also benefit both the greater Imperial Beach community. It will increase pedestrian and bicyclist safety, make the use of active transportation modes more inviting, reduce traffic congestion in our school zone, increase the health of the community and my students by increasing exercise levels, reducing obesity and improving air quality. I believe with these improvements, the number of students using active modes of transportation will increase by as much as 40 percent.

I urge the Active Transportation Program to approve grant funding for this important project to improve the paths of travel to our schools and in our community. This project will positively affect the safety of students, pedestrians, cyclists, disabled and school buses as well as the community by incorporating much needed safety and traffic calming measures on Elm Avenue.

Sincerely,

Wesley Braddock
Principal



IMPERIAL BEACH CHARTER SCHOOL

Imperial Beach Campus • 650 Imperial Beach Blvd.
West View Campus • 525 3rd Ave.
Imperial Beach, California 91932-2794
IB: (619) 628-5600 • WV: (619) 628-8900

"All Students, All of Us – Achieving Success Together!"

May 14, 2014

CALTRANS

Division of Local Assistance, MS 1

Attn: Office of Active Transportation and Special Programs

Teresa McWilliam

P.O. Box 942874

Sacramento, CA 94274

Ms. McWilliam,

I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Imperial Beach Charter School and Mar Vista High School. I view these improvements as essential to the safety and wellbeing of the students I serve as principal of a neighborhood school that relies heavily on walking and bicycling to school.

Currently the traffic on Elm Avenue in front of Imperial Beach Charter School creates a number of hazards for students as they are entering and exiting campus on a daily basis. These hazards include, but are not limited to the following:

- No designated parent drop off for students.
- A lack of stop signs (for East bound traffic).
- School buses block cross walk visibility at Elm Avenue and Carolina Street intersection.
- Lack of bicycle lane.
- Drivers are not courteous to pedestrians and visa versa.
- Mass numbers of pedestrians on very narrow sidewalks.

In the past year we have had two elementary aged students have near collisions with automobiles that were not looking, were speeding, and not being courteous to the pedestrians in the area. It is my belief that the proposed improvements are necessary to increase visibility, safety, and the overall well-being and health of our community.

With the mentioned improvements, more students will feel safer walking and riding their bikes to school, thus increasing their physically activity and reducing the number of vehicles in the immediate area. This is a win-win situation. In a socio-economically disadvantaged area, a decrease in driving will mean a savings for families as well.

Board of Trustees

Elvia Aguilar • Chris Brown • Melanie Ellsworth • Barbara Elliott-Sanders • Nicholas Inzunza

Superintendent

Katie McNamara, Ed.D.



IMPERIAL BEACH CHARTER SCHOOL

Imperial Beach Campus • 650 Imperial Beach Blvd.
West View Campus • 525 3rd Ave.
Imperial Beach, California 91932-2794
IB: (619) 628-5600 • WV: (619) 628-8900

"All Students, All of Us – Achieving Success Together!"

I strongly encourage the Active Transportation Program to approve grant funding for this important project in the Imperial Beach area. The students of Imperial Beach Charter School and Mar Vista High School will benefit tremendously. They will be positively effected in many ways, but most importantly it will ensure greater safety as they travel to and from school, a concern at the forefront of every educator and parents' mind.

I thank you for your consideration, and for putting the safety of children first.

Respectfully,

Pamela Reichert-Montiel
Principal
Imperial Beach Charter School

Board of Trustees

Elvia Aguilar • Chris Brown • Melanie Ellsworth • Barbara Elliott-Sanders • Nicholas Inzunza

Superintendent

Katie McNamara, Ed.D.



SAN DIEGO COUNTY OFFICE OF EDUCATION

6401 LINDA VISTA ROAD, SAN DIEGO, CALIFORNIA 92111-7399 (858) 292-3500

Superintendent of Schools

Randolph E. Ward, Ed.D.

May 16, 2014

CALTRANS

Division of Local Assistance, MS 1

Attn: Office of Active Transportation and Spec. Prog.

P.O. Box 942874

Sacramento, CA 94274

Dear CALTRANS:

On behalf of the San Diego County Office of Education- Friendship School, I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

Friendship School is a special education school that serves moderate to severely disabled students 3-22 years old that are medically fragile requiring specialized healthcare throughout the school day. Ninety-five percent of the students at the school are non-ambulatory and are bused in via their local school districts transportation departments. Hence, making bus transportation an essential part of how the students get to and from school each day. This grant is an excellent way to assist in making some major improvements to the traffic situation near the school. Some of the improvements that I believe are essential include; a designated bus loading/drop off zone, creating wheelchair accessible sidewalks, adding a stop sign to slow traffic on Elm Avenue near Carolina, and designating bike lanes.

Some specific issues directly affecting our school regarding traffic are vehicles parking in the area where the school buses unload/load students. Although there is a sign that says "NO stopping 7am-5pm during school hours" (Connecticut Avenue) this sign is often ignored or not seen. This issue causes the morning and afternoon pick-up of students to cause congestion and sometimes the need to have the Sheriff's department called in to assist in towing of vehicles that are parked in this area. Additionally, with the fragile medical state of some of the students in the building the necessity to call 911 is sometimes eminent requiring the bus zone to be clear of any unauthorized vehicles. Having the bus zone clearly marked would eliminate potential problems. The other issue is currently the bus zone only allows three buses to load while the other buses wait in line due to the sidewalk being partially dirt and cement. As the buses wait to load students they are blocking visibility for both oncoming traffic and pedestrians from Connecticut Avenue as well as Elm Avenue.

I encourage the Active Transportation Program to approve grant funding for this imperative project to enhance the paths of travel to our schools and in our community. This project will positively affect the safety of all stakeholders by incorporating much needed safety and traffic calming measures on Elm Avenue.

Thank you for taking the time to consider the concerns regarding the safety of the students and citizens of the city of Imperial Beach.

Sincerely,

Diana Lynn

Principal

Friendship School

San Diego County Office of Education

Board of Education

Mark C. Anderson

Susan Hartley

Sharon C. Jones

Lyn Neylon

Gregg Robinson

SERVICE AND LEADERSHIP



San Diego County Sheriff's Department

Post Office Box 939062 • San Diego, California 92193-9062



William D. Gore, Sheriff

May 2, 2014

CALTRANS
Division of Local Assistance, MS 1
Attn: Office of Active Transportation and Spec. Prog.
P.O. Box 942874
Sacramento, CA 94274

Dear CALTRANS:

On behalf of the San Diego County Sheriff's Department, Imperial Beach Substation, I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

The proposed improvements will significantly improve school ingress and egress safety access to the City of Imperial Beach and will have wide-ranging safety benefits to our schools, the surrounding community, bus access, pedestrians and cyclists. The project will include widening the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair access, separating designated bike/pedestrian/wheelchair access way from vehicular traffic through curbing and landscaping, adding a designated school bus stop lane, and constructing road improvements to reduce vehicular speed and improve traffic flow.

I urge the Active Transportation Program to approve grant funding for this important project to improve the paths of travel to our schools and in our community. This project will positively affect the safety of students, pedestrians, cyclists, disabled and school buses as well as the community by incorporating much needed safety and traffic calming measures on Elm Avenue.

Sincerely,

A handwritten signature in black ink that reads "William D. Gore".

William D. Gore, Sheriff



County of San Diego

NICK MACCHIONE, FACHE
DIRECTOR

HEALTH AND HUMAN SERVICES AGENCY
1600 PACIFIC HIGHWAY, ROOM 206, MAIL STOP P-501
SAN DIEGO, CA 92101-2417
(619) 515-6555 • FAX (619) 515-6556

DEAN ARABATZIS
CHIEF OPERATIONS OFFICER

May 15, 2014

Teresa McWilliam
Division of Local Assistance
CALTRANS
1120 N. Street
Sacramento, CA 95814

Dear Ms. McWilliam:

On behalf of the County of San Diego Health and Human Services Agency, I am writing to express our support for the City of Imperial Beach's Active Transportation Program grant application to improve walkability around two schools: Mar Vista High and Imperial Beach Elementary schools.

This proposal aligns with the County of San Diego's *Live Well San Diego* initiative, a 10-year plan aimed at building healthy, safe and thriving communities. The initiative is based on three behaviors – poor nutrition, lack of physical activity, and tobacco use – that contribute to four diseases: heart disease/stroke, cancer, type 2 diabetes, and respiratory conditions, such as asthma. These diseases result in over 50 percent of deaths in San Diego County. In the South Region, where Imperial Beach is located, that number is 59 percent. A goal of *Live Well San Diego* is to reduce barriers to physical activity. This project will improve walkability to and from school for students, families and other residents in the area. Additionally, it will reduce traffic congestion, thereby reducing air pollution, a major environment-related health concern, and risk to respiratory disease.

On November 6, 2013, the County of San Diego designated the City of Imperial Beach as a *Live Well San Diego* city partner. It is a recognized partnership with entities that align with the *Live Well San Diego* vision to create healthy, safe and thriving communities. The City of Imperial Beach demonstrates the principles of *Live Well San Diego* through the following: being home to a significant stretch of the Bayshore Bikeway, connecting Chula Vista to Coronado through the Silver Strand, and supporting access to fresh fruits and vegetables by hosting a farmers' market on the Imperial Beach pier. In addition, the City's Public Works Department participates on the Safe Routes to Schools Coalition to improve walkability in the city and around schools. Leaders engaged schools and neighbors on possible improvements to the streets, and worked with other elected officials to help change a policy at the South Bay Union School District to allow biking to school.

I encourage the Active Transportation Program to consider funding this important project to improve safety and wellness of the children, families and residents around Mar Vista High and Imperial Beach Elementary schools. This project will positively affect the safety and wellness of residents in the community.

Sincerely,

NICK MACCHIONE, FACHE
Director

EQ/bj

STATE CAPITOL
P.O. BOX 942849
SACRAMENTO, CA 94249-0078
(916) 319-2078
FAX (916) 319-2178

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1350 FRONT STREET, ROOM 6054
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(619) 645-3090
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E-MAIL
Assemblymember.Atkins@assembly.ca.gov

Assembly California Legislature



TONI ATKINS
MAJORITY LEADER

ASSEMBLYMEMBER, SEVENTY-EIGHTH DISTRICT

COMMITTEES
AGRICULTURE
HEALTH
HOUSING AND COMMUNITY
DEVELOPMENT
VETERANS AFFAIRS

SELECT COMMITTEES
CHAIR, HOMELESSNESS
BIOTECHNOLOGY
COASTAL PROTECTION
PORTS
SEA LEVEL RISE AND THE
CALIFORNIA ECONOMY

JOINT COMMITTEES
RULES
JOINT LEGISLATIVE AUDIT

May 5, 2014

California Department of Transportation
Division of Local Assistance, MS 1
Attn: Office of Active Transportation and Special Programs
P.O. Box 942874
Sacramento, CA 94274-0001

To Whom It May Concern:

I write in strong support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

The proposed improvements will provide safe school ingress and egress for students attending Mar Vista High School and Imperial Beach Elementary School. The project will improve access to transit and provide significant improvements to pedestrian and bicycle access by widening the school-access sidewalk. The design expands wheelchair access, separates designated bike/pedestrian/wheelchair access from vehicular traffic through curbing and landscaping, adds a designated school bus stop lane, and road improvements to reduce vehicular speed and improve traffic flow.

I urge the approval of grant funding for this important project that will ensure the safety of students, pedestrians, cyclists, the disabled and students entering and existing the school bus stop, as well as local residents. by incorporating much needed safety and traffic calming measures on Elm Avenue.

Warmly,

A handwritten signature in cursive script that reads "Toni Atkins".

TONI ATKINS
Speaker-Elect
78th Assembly District

TA:ds



California State Senate

SENATOR
BEN HUESO
FORTIETH SENATE DISTRICT



STANDING COMMITTEES
VETERANS AFFAIRS
CHAIR

BANKING & FINANCIAL
INSTITUTIONS
EDUCATION
NATURAL RESOURCES
& WATER
TRANSPORTATION
& HOUSING

SELECT COMMITTEES
CALIFORNIA'S ENERGY
INDEPENDENCE
CHAIR
CALIFORNIA-MEXICO
COOPERATION

April 30, 2014

CALTRANS
Division of Local Assistance, MS 1
Attn: Office of Active Transportation and Spec. Prog.
P.O. Box 942874
Sacramento, CA 94274

Dear CALTRANS:

I am writing in support of the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

The proposed improvements will significantly improve school ingress and egress safety to access in the City of Imperial Beach and will have wide-ranging safety benefits to our schools, the surrounding community, bus access, pedestrians and cyclists. The project will include widening the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair access, separating designated bike/pedestrian/wheelchair access way from vehicular traffic through curbing and landscaping, adding a designated school bus stop lane, and constructing road improvements to reduce vehicular speed and improve traffic flow.

I urge the Active Transportation Program to approve grant funding for this important project to improve the paths of travel to our schools and in our community. This project will positively affect the safety of students, pedestrians, cyclists, disabled and school buses as well as the community by incorporating much needed safety and traffic calming measures on Elm Avenue.

Sincerely,

A large, stylized black ink signature of Ben Hueso, written over a horizontal line.

Ben Hueso
Senator, 40th District





GREG COX
SUPERVISOR, FIRST DISTRICT
San Diego County Board of Supervisors

April 30, 2014

Ms. Teresa William
CALTRANS
Division of Local Assistance, MS 1
Attn: Office of Active Transportation and Spec. Program
P.O. Box 942874
Sacramento, CA 94274

Dear Ms. William:

As Supervisor for the First District of San Diego County, it is my pleasure to support the City of Imperial Beach's Active Transportation Program grant application for improvements to Elm Avenue near Mar Vista High School and Imperial Beach Elementary School.

As a longtime advocate for active transportation projects, I have seen firsthand how the implementation of new and improved pathways can benefit an entire community. The proposed improvements will significantly improve school ingress and egress in the City of Imperial Beach as well as have wide-ranging safety benefits to our schools, the surrounding community, bus access, pedestrians and cyclists. The project will include widening the school-access sidewalk to allow ample room for pedestrian, bicycle and wheelchair, access away from vehicular traffic through curbing and landscaping, adding a designated school bus stop lane, and constructing road improvements to reduce vehicular speed and improve traffic flow.

Elm Avenue is a major route used by drivers, cyclers and pedestrians alike. If this grant is awarded, the funding will improve the paths of travel to our schools and our community and improve the safety of not only our children, but the community as a whole.

I appreciate your consideration of the application and respectfully request your support.

Sincerely,

A handwritten signature in black ink that reads "Greg Cox".

GREG COX
Supervisor, First District

San Diego Region

Counties: San Diego

Grades								
County	Adults with Asthma	Children with Asthma	Ozone Days†	Ozone Grade	PM Days†	PM Grade	Annual PM Value‡	Annual PM Grade
San Diego	203,011	52,020	16.2	F	4.7	F	11.8	Pass

†Number of Days reported equals the weighted annual average of unhealthy ozone or particulate days recorded over the three-year period of 2009-2011. An annual average of 3.3 or more unhealthy days earns an “F” grade.
‡Annual PM value represents the average concentration of particulates measured in the air throughout the year. A concentration of 12 (micrograms/cubic meter) earns a “FAIL” grade.

2013 SOTA Grades (2009-2011 Air Quality Data)

San Diego County continues to make steady progress in reducing unhealthy days for ozone and particle pollution.

Ozone Pollution

- The San Diego-Carlsbad- San Marcos metro area dropped out of the nation’s top ten ozone-polluted metro area in the United States, though it still ranks 11th. San Diego County improved from 10th to 18th since last year’s report.
- San Diego had its lowest number of unhealthy ozone days ever reported in SOTA 2013 and has shown continued improvement in ozone pollution over the course of the SOTA reports.

Particulate Pollution

Short-Term Particulates

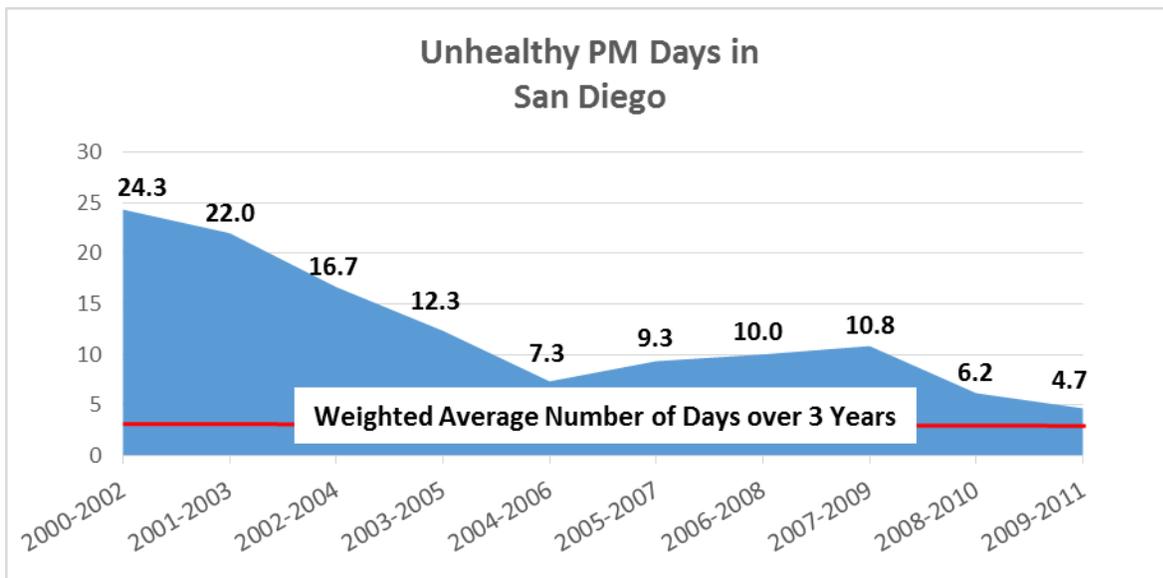
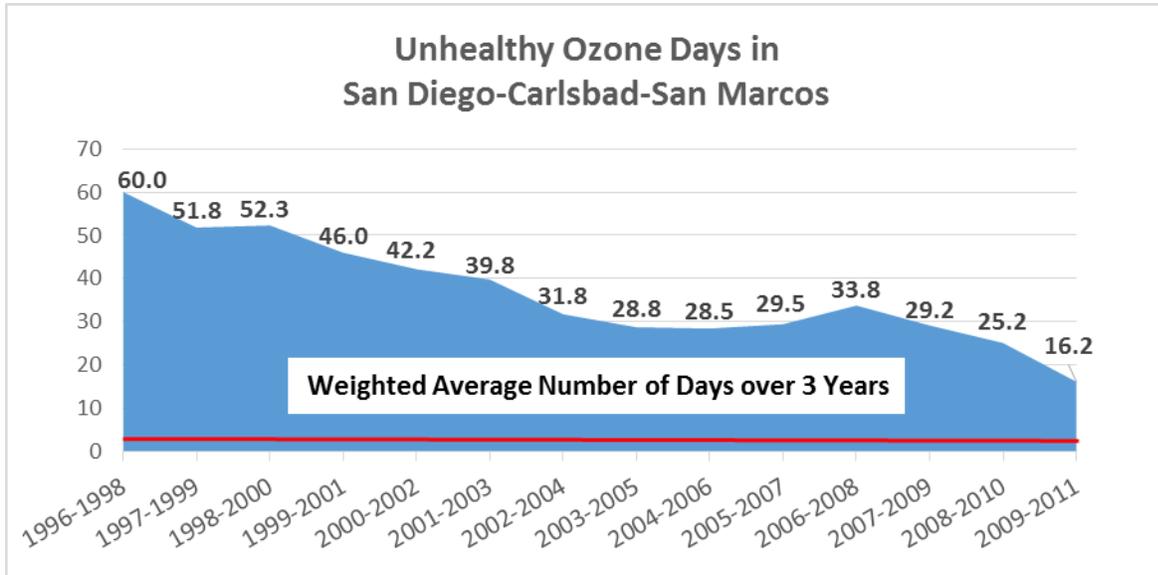
- The San Diego-Carlsbad-San Marcos metropolitan area ranks as the 23rd most polluted area for short-term particle pollution in the nation, and had 4.7 unhealthy particulate days in SOTA 2013. This is the lowest number of unhealthy days for particle pollution reported over the years of the SOTA report.

Annual Particulates

- For the third SOTA report in a row, annual particulate levels have fallen in San Diego County, which earned a PASS in SOTA 2013.

Trend Charts

Unhealthy air days shown in chart below represent a 3-year weighted average number of days recorded from 2009-2011. Days above the red line (3.3 annual average) earn the location an F grade.



Clean Air Progress

Since the original State of the Air report in 2000, San Diego has shown significant improvements in reducing both ozone and particulate pollution, with best ever levels of each pollutant reported in SOTA 2013.

Ozone Pollution

- San Diego has reduced unhealthy ozone days 73 percent since 2000 SOTA (1996-1998 data). San Diego experienced an annual average of 60 days per year in SOTA 2000 reporting, down to its annual average of 16.2 days reported in SOTA 2013 (2009-2011 data).
- Compared to last year's SOTA report, San Diego's number of unhealthy ozone days fell by over one-third (from 25.2 to 16.2 days), in large part due to the absence of 2008 wildfire impact on the SOTA 2013 data analysis.

Particulate Pollution

Short-Term Particulates

- San Diego's annual weighted average of unhealthy particulate pollution days has dropped by 81 percent (from 24.3 to 4.7 days annually) since SOTA 2004 (2000-2002 data).

Annual Particulates

- Annual particulate concentrations in San Diego remain within the federal standard and have fallen by 28 percent since SOTA 2004, the first year this data was included in SOTA reports.

Region Summary

The San Diego Air Basin is home to 8% of California's population and represents 7% of California's criteria pollution emissions. While emissions from local sources are enough to violate ozone standards, San Diego faces additional challenges due to the transport of pollutants from the South Coast Air Basin to the north and to some extent, from Mexico to the south. Ozone pollution in San Diego tends to accumulate in the mountainous eastern portion of the air basin.

Metropolitan Areas appearing in SOTA 2013 National Rankings

Metro Area	Ozone	Short-term Particulates	Annual Particulates
San Diego	11	23	N/A

The San Diego metro area is ranked as the 11th most ozone-polluted city and 23rd most polluted by short-term particulates in America in SOTA 2013.

Key Emission Sources:

- Mobile sources (on-road and off-road) account for over 90% of NO_x emissions in the San Diego Air Basin, slightly more than half of which are attributed to diesel-fueled vehicles.
- Port of San Diego and goods movement (contributes to regional pollution and to hot spots of pollution near the Port of San Diego).
- Agricultural operations, especially diesel emissions from agricultural vehicles and equipment.

Pollution hotspots like freeways and major roadways, ports and rail yards pose real health risks to nearby residents and should be the focus of additional monitoring (monitoring stations are distributed throughout California counties and are not always in close proximity to major or localized pollution sources).