

HIGHWAY 20 NORTHSHORE COMMUNITIES TRAFFIC CALMING PLAN & ENGINEERED FEASIBILITY STUDY

Final Presentation
June 3, 2020



Lake Area Planning Council

Consultant team led by **W-Trans** with the **Local Government Commission**
Funded by a Caltrans Sustainable Transportation Planning Grant

A REGIONAL TRAVEL ROUTE AND A "MAIN STREET"



PROJECT PURPOSE

- Long-term goal is to redesign Highway 20 to place greater emphasis on **local needs** for access and safety
- Evaluate the needs, priorities, and feasibility of traffic calming measures within **Nice, Lucerne, Glenhaven, and Clearlake Oaks**
- Develop prioritized list of projects to improve **pedestrian, bicycle, and transit access and safety** within the 4 study communities
- Prepare concept plans to position local agencies to **secure funding**

RECOMMENDATIONS GUIDED BY...

- Previous plans and studies
- Analysis of existing conditions
- Input from communities, local agencies, and Caltrans



EXISTING CONDITIONS

- Speeding traffic
- No sidewalks, sidewalk gaps
- No bicycle facilities
- Wide street crossings
- Poor lighting
- Bus stops poorly marked, few shelters

VEHICLE SPEEDS

Summary of Speed Surveys

Study Street Segment	Critical Speed (85 th %-tile)	Existing Speed Limit	Speed Difference (+/-)
Nice <i>Between Levy Ave and Keeling Ave</i>	51	40	+11
Lucerne <i>At 4th Ave</i>	35	35	0
Glenhaven <i>At Harbor Dr</i>	49	45	+4
Clearlake Oaks <i>Between Butler St and Hoover St</i>	38	35	+3

Notes: Speed is shown in miles per hour; **Bold** = 85th percentile speed higher than the posted speed limit



COMMUNITY OUTREACH - PHASE 1

IDENTIFICATION OF ACCESS AND SAFETY ISSUES

May 16, 2019 - Community Workshop # 1 -
Lucerne Senior Center

July - September 2019 - Online Interactive
Mapping Survey Input

August 6, 2019 - National Night Out Booth

August 29, 2019 - September 1, 2019 -
Lake County Fair Booth



WHAT WE'VE HEARD - NICE

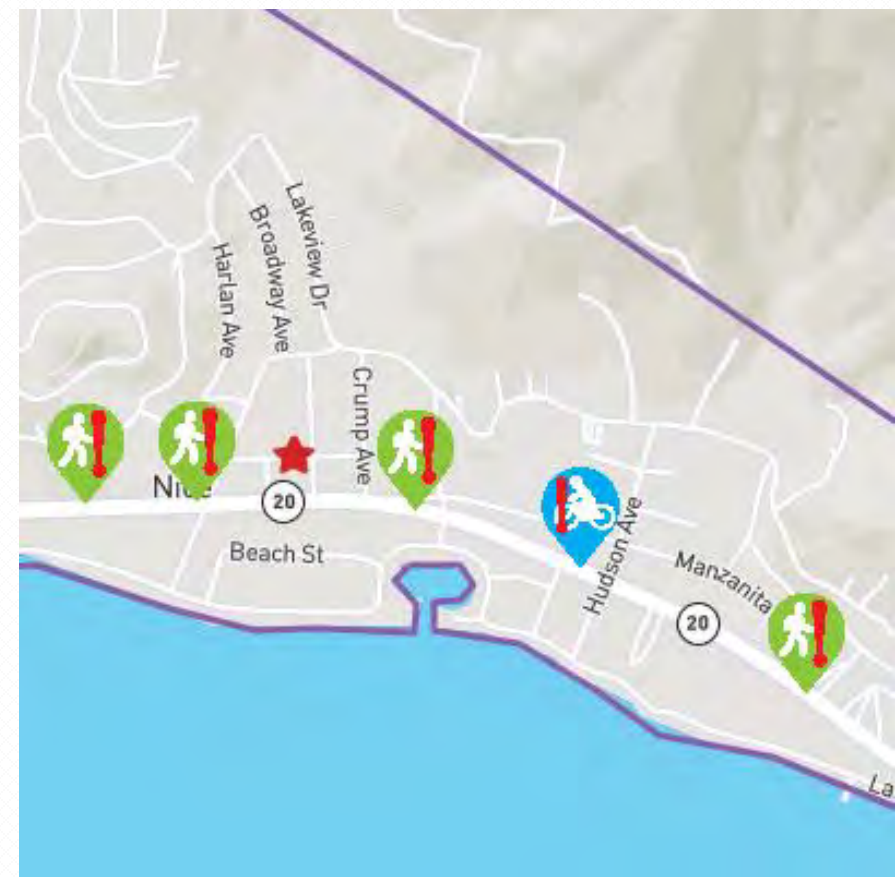
Comments Received: **75**

Priorities Based on Comments Received:

Priority 1: Unsafe Crossings for Pedestrians

Priority 2: Lack of Lighting at Crosswalks & at Key Locations along Hwy 20

Priority 3: Improve Sidewalk Facilities – Repair and add new sidewalks



WHAT WE'VE HEARD - LUCERNE

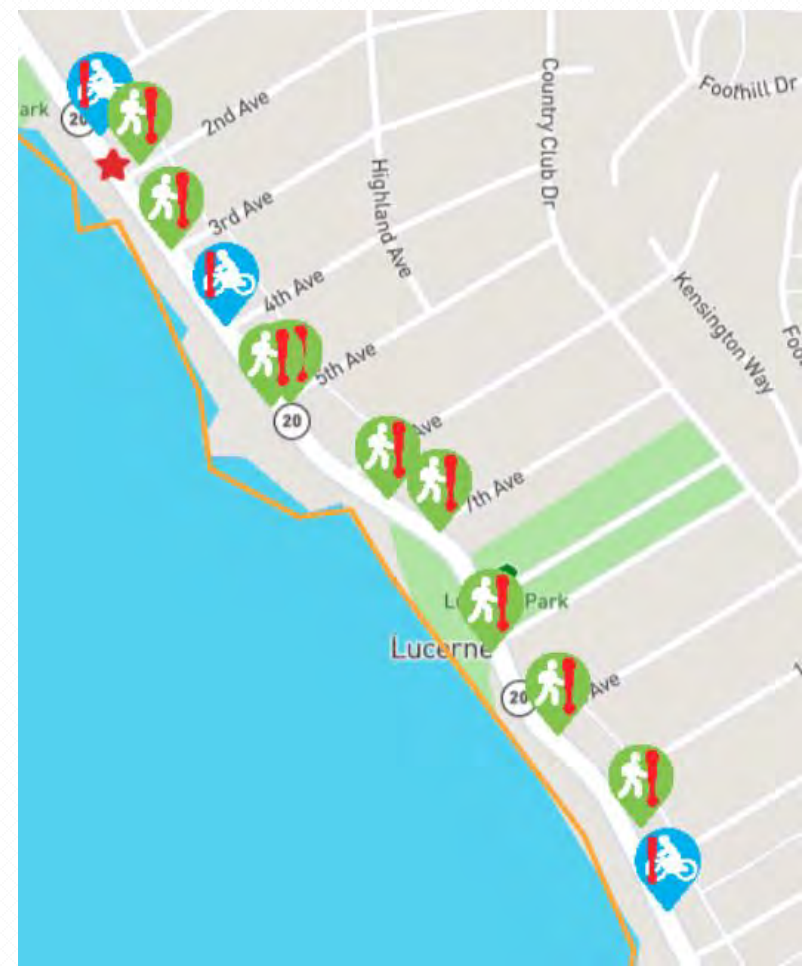
Comments Received: **122**

Priorities Based on Comments Received:

Priority 1: Unsafe Crossings for Pedestrians

Priority 2: Improved Bicycle Facilities

Priority 3: Improved Sidewalk Facilities –
Repair and add new sidewalks



WHAT WE'VE HEARD - GLENHAVEN

Comments Received: **12**

Priorities Based on Comments Received:

Priority 1: Improve safety for pedestrians – Reduce speed of westbound vehicle traffic prior to blind corner east of Post Office & Linden Lane

Priority 2: Improve/Add Sidewalks & Crosswalks

Priority 3: Improve Bicycle Facilities

WHAT WE'VE HEARD - CLEARLAKE OAKS

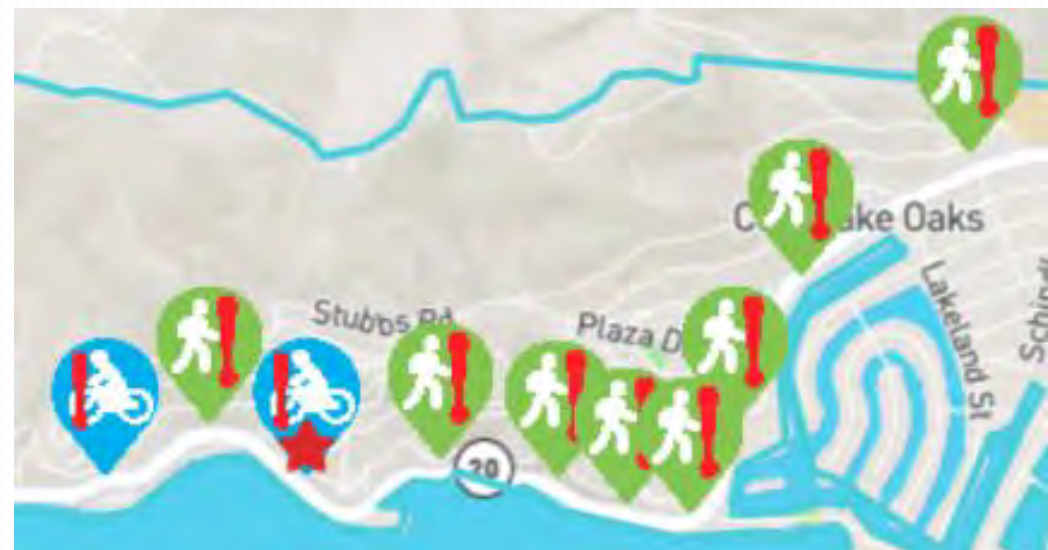
Comments Received: **36**

Priorities Based on Comments Received:

Priority 1: Unsafe Crossings for Pedestrians

Priority 2: Drivers Use 2-way Left Turn Lane as Passing Lane

Priority 3: Roadway too Narrow for Bicycles

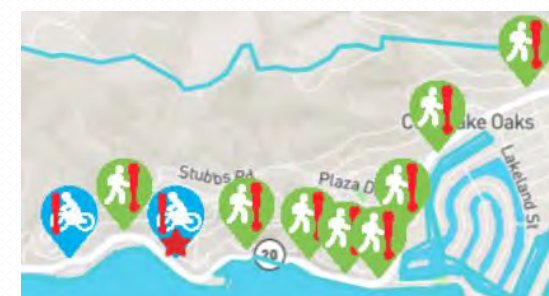
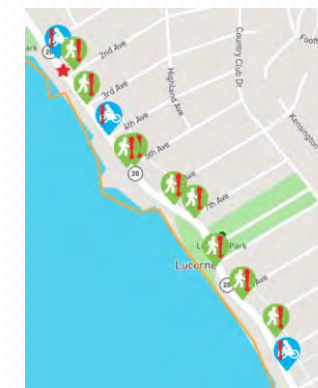
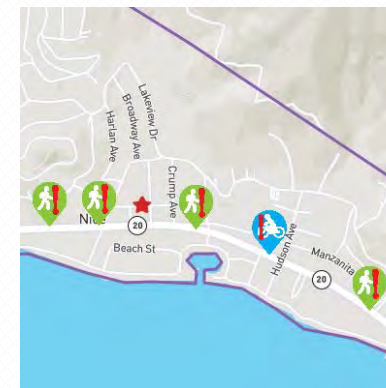




PROPOSED TRAFFIC CALMING ALTERNATIVES

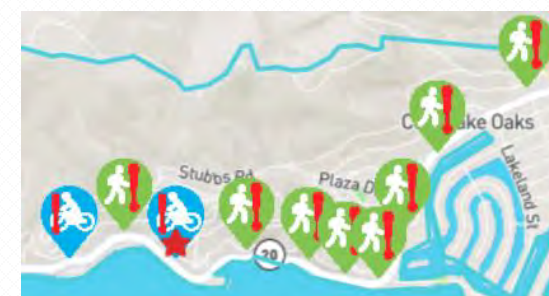
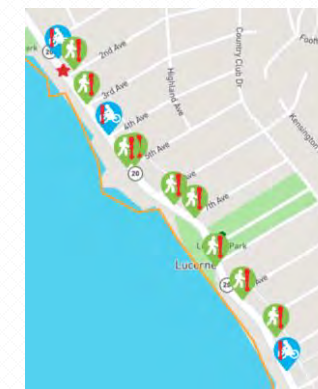
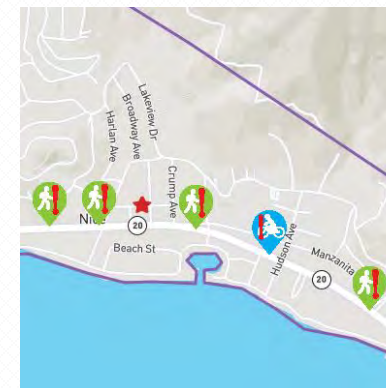
PRIORITY STRATEGIES

- Enhance Safety of Pedestrian Crossings
- Improve/Add Pedestrian Sidewalk/Walkway Facilities
- Improve/Provide Bicycle Lanes/Facilities
- Improve Lighting for Pedestrians at Crosswalks
- Address Passing in the Center Turn Lane
- Slow Down Vehicle Traffic



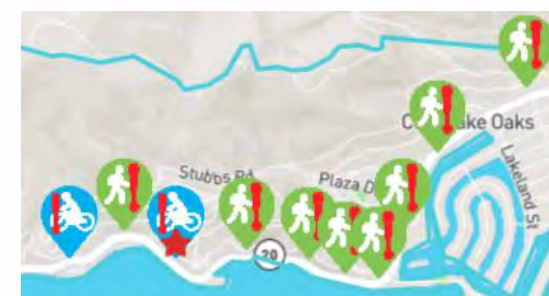
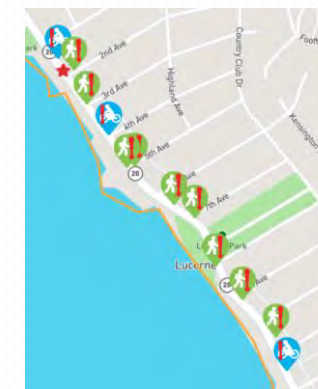
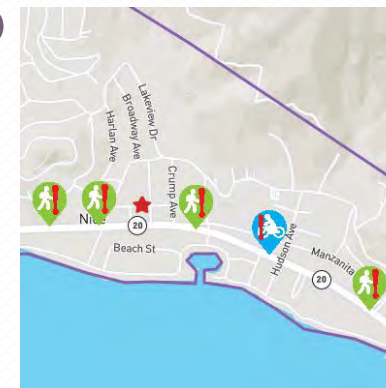
BIKE LANE OPTIONS

- No Changes to Highway Shoulders
- Bike Lanes (No Buffer), maintain all Parking
- Bike Lanes (No Buffer), maintain Parking as much as possible.
- Bike Lane with Buffer, remove Parking if necessary.



FEASIBILITY/LIMITATIONS

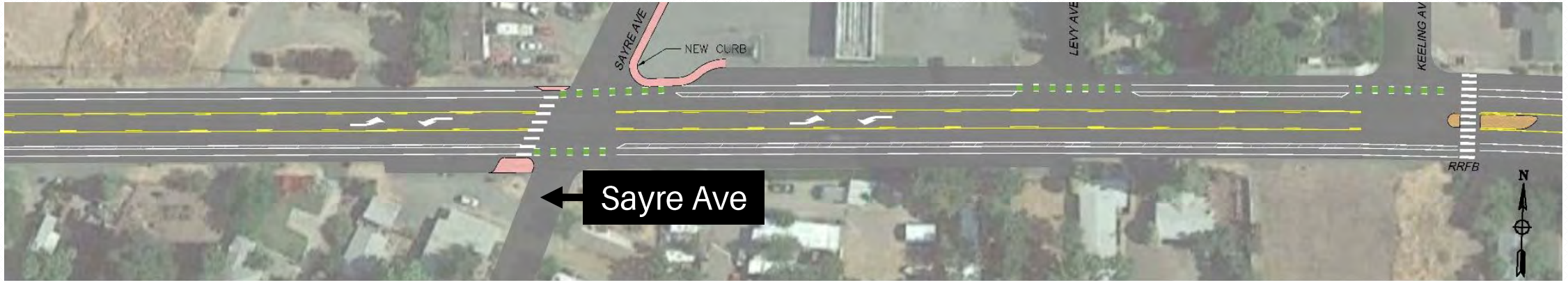
- Funding
- Maintenance Needs
- Caltrans Design Guidelines
- Caltrans Policy
- Emergency Vehicle Access
- Large Vehicle Access



PROPOSED ACCESS AND SAFETY TREATMENTS

- Community Identity and Entry Traffic Calming
- Visual Narrowing
- Bicycle Access
- Bicycle Parking
- Pedestrian Walkways
- Pedestrian Crossing Enhancements
- Pedestrian Crossing Signage
- RRFBs
- Median Islands
- Pedestrian Bulbouts
- Pedestrian Visibility
- Enhanced Shoulders
- Truck turnouts
- Bus Stops/Transit Access

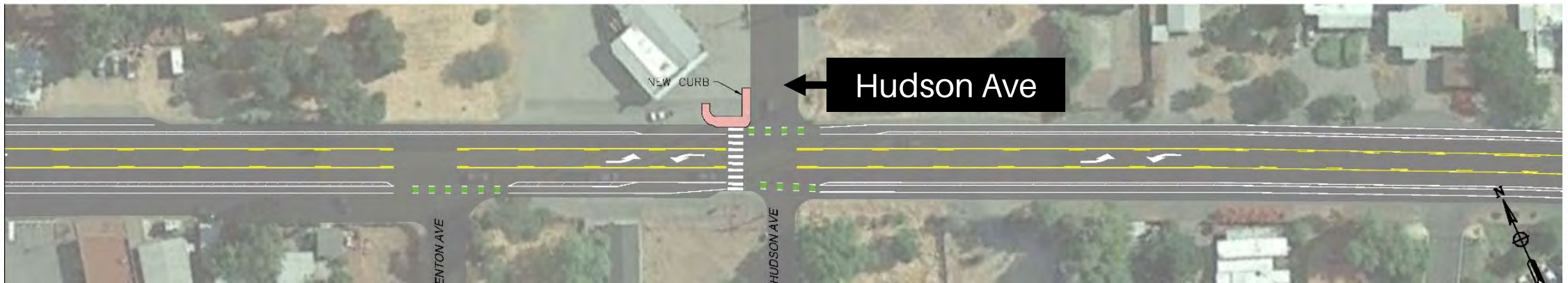
CONCEPT PLAN - NICE



Sayre Ave



Manzanita Dr



Hudson Ave

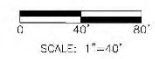
CONCEPT PLAN - NICE

Dec 02, 2019 - 2:48pm



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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



Date	Revision	By

SCALE: 1"=40'
 DATE: 12/2/2019
 JOB NO: LKX078
 DRAWING NUMBER: 1 of 8

Highway 20 North Shore Communities
 Traffic Calming Plan & Engineering Feasibility Study
 W-T Trans, Inc., CA

30% Concept Geometrics

DESIGNED BY: W-T TRANS
 CHECKED BY: FRED W. FITZMAURICE, P.E. No. 34805

DRAWN BY: BRIAN ACU
 DATE: _____

W-T Trans
 490 Mendocino Avenue, Suite 201
 Santa Rosa, CA 95401
 (707) 542-9500 Fax (707) 542-9590

Professional Engineer Seal for Brian Acu, No. 34805, State of California, Exp. 12/31/2021

NICE - MANZANITA DRIVE INTERSECTION



NICE - MANZANITA DRIVE INTERSECTION

Existing



NICE - MANZANITA DRIVE INTERSECTION

Existing



CONCEPT PLAN - LUCERNE



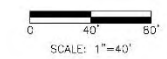
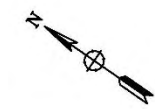
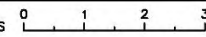
CONCEPT PLAN - LUCERNE



Dec 02, 2019 - 2:48pm

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



Date	Revision	By

MATCHLINE C - SEE PAGE 2
 MATCHLINE D - SEE BELOW
 MATCHLINE D - SEE ABOVE
 MATCHLINE E - SEE PAGE 5

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DESIGNED BY: W-TRANS
 CHECKED BY: BROOK M. FITZMAUR, A.C.E. NO. 3345

DRAWN BY: [Blank]
 BRG, ACJ
 DATE: [Blank]

HIGHWAY 20 NORTH SHORE COMMUNITIES
 TRAFFIC CALMING PLAN & ENGINEERED FEASIBILITY STUDY
 LUCERNE, CA

30% Concept Geometrics

Date	Revision	By	SCALE
			1:40
			DATE: 12/2/2019
			JOB NO: LKX078
			DRAWING NUMBER
			4 of 8

LUCERNE - 13TH AVE



LUCERNE - 13TH AVE

Existing



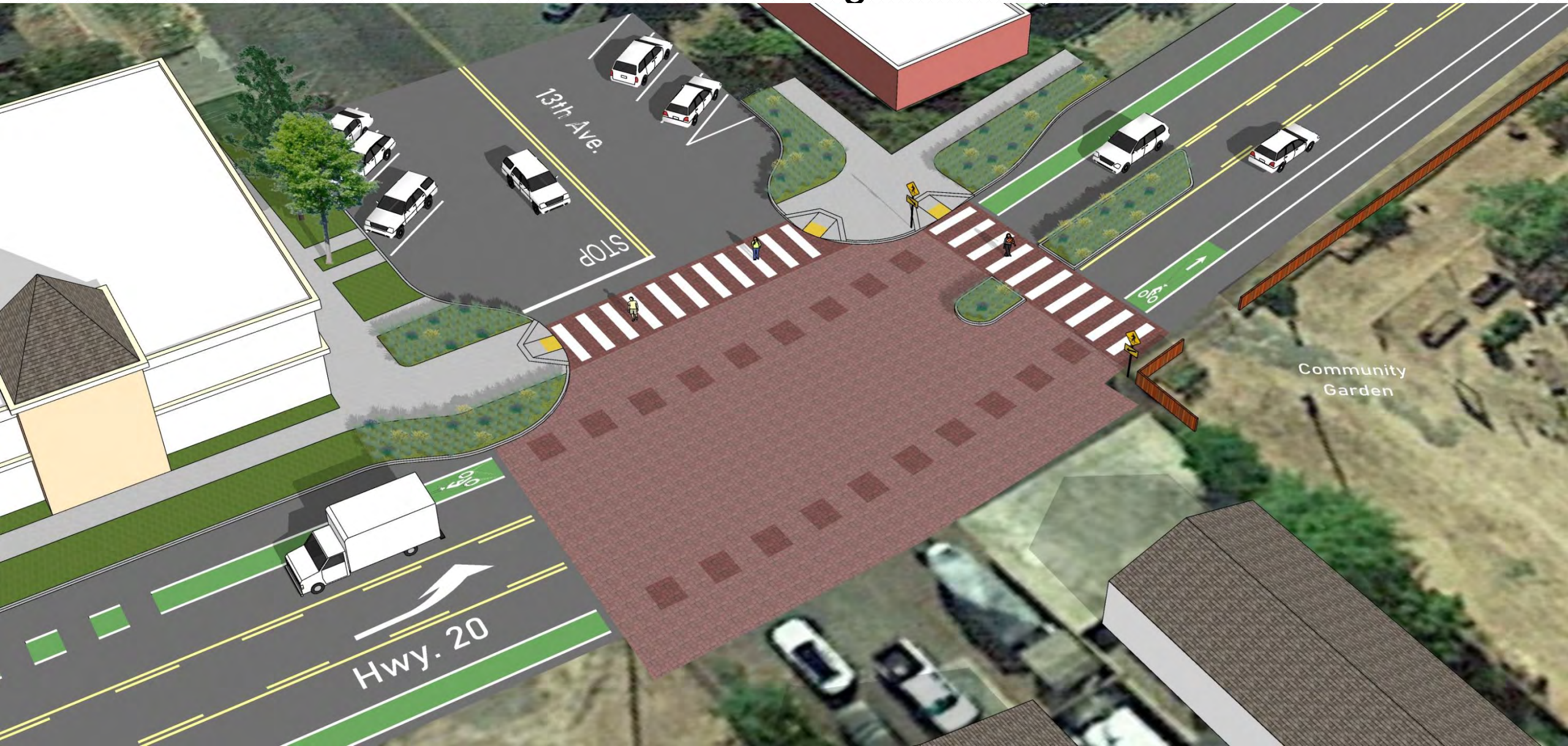
LUCERNE - 13TH AVE

Proposed - Near Term



LUCERNE - 13TH AVE

Potential Long Term



GLENHAVEN



ENHANCED SHOULDERS (GLENHAVEN)



CLEARLAKE OAKS - CONCEPT PLAN



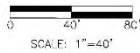
CLEARLAKE OAKS - CONCEPT PLAN



Dec 02, 2019 - 2:48pm

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FOR REDUCED PLANS, THE ORIGINAL SCALE IS IN INCHES



Date	Revision	By

SCALE: 1:40
 DATE: 12/2/2019
 JOB NO: LKX07B
 DRAWING NUMBER: 7 of 8

Highway 20 North Shore Communities
 Traffic Calming Plan & Engineering Feasibility Study
 CLEARLAKE OAKS, CA
 30% Concept Geometrics

DESIGNED BY: W-T TRANS
 CHECKED BY: STEVEN M. FITZMAURICE, R.C.E. NO. 34033



DRAWN BY: BRUCE ADI
 DATE:



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HIGHWAY 20/ACORN ST INTERSECTION

Clearlake Oaks



CLEARLAKE OAKS - ACORN ST

Existing



CLEARLAKE OAKS - ACORN ST

Proposed - Near Term



CLEARLAKE OAKS - ACORN ST

Potential Long Term



CLEARLAKE OAKS - ACORN ST

Proposed - Near Term



CLEARLAKE OAKS - ACORN ST

Potential Long Term



BUS STOP IMPROVEMENTS



RRFB (RECTANGULAR RAPID FLASHING BEACONS)



PEDESTRIAN LIGHTING



GATEWAY TREATMENTS

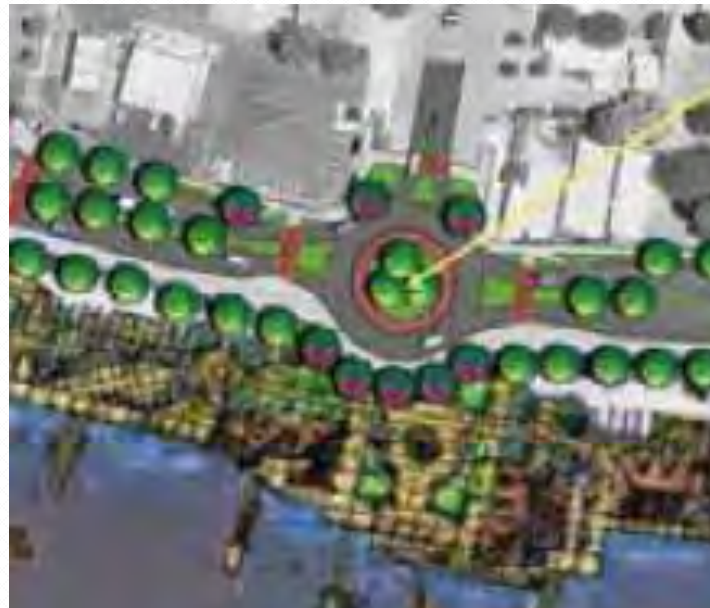


POTENTIAL LONG-TERM IMPROVEMENTS

Recommended in 2005 *Highway 20 Beautification Plan*



Foothill Blvd (Lucerne)



13th Ave (Lucerne)



Keys Blvd (Clearlake Oaks)

COST ESTIMATE

CURRENT FUNDING OPPORTUNITIES

Active Transportation Program (ATP)

- Cycle 5 currently under way
- Application deadline September 15, 2020

Highway Safety Improvement Program (HSIP)

- Cycle 10 currently under way
- Application deadline September 4, 2020



QUESTIONS?

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