

CITY OF RIO VISTA GENERAL PLAN UPDATE

CIRCULATION ELEMENT DISCUSSION // OCTOBER 20,
2022



MEETING AGENDA

- ➔ Overview of Transportation Planning Efforts
- ➔ Related Transportation Planning Efforts
- ➔ Key Transportation and Circulation Issues
- ➔ Accommodating Highway 12 Traffic
- ➔ Next Steps

OVERVIEW OF TRANSPORTATION PLANNING EFFORTS



Components of a Circulation Element

- ➔ General Plan
 - ➔ The overarching City policy document
 - ➔ Establishes the vision for the community

Statutory Citation	Brief Description of Requirement
Gov. Code, § 65302(b)(1)	Existing and proposed major thoroughfares
Gov. Code, § 65302(b)(1)	Existing and proposed transportation routes
Gov. Code, § 65302(b)(2)	• Public transportation
Gov. Code, § 65302(b)(2)	• Bicycle
Gov. Code, § 65302(b)(2)	• Pedestrian
Gov. Code, § 65302(b)(2)	• Automobile
Gov. Code, § 65302(b)(2)	• Commercial goods
Gov. Code, § 65302(b)(1)	Existing and proposed terminals
Gov. Code, § 65302(b)(1)	Military airports and ports
Gov. Code, § 65302(b)(1)	Other local public utilities and facilities
Gov. Code, § 65302(b)(2)	Needs of children, persons with disabilities, and seniors?
Gov. Code, § 65302(b)(1); Fed. of Hillside & Canyon Assns. v. City of Los Angeles (2004) 126 Cal. App. 4th 1180, 1196	Identified funding for infrastructure identified in circulation element?
Gov. Code, § 65302(b)(1)	Circulation element is correlated with the land use element?

Legislation – Updates Since 2001

- ➔ AB 1358 – Complete Streets
- ➔ AB 32 – Global Warming Solutions Act
- ➔ SB 375 – Sustainable Communities and Climate Protection Act
- ➔ SB 743 – VMT

Government Code Section 65302 (b)

- (1) A circulation element consisting of the general location and extent of existing and proposed major thoroughfares, transportation routes, terminals, any military airports and ports, and other local public utilities and facilities, all correlated with the land use element of the plan.
- (2) (A) Commencing January 1, 2011, upon any substantive revision of the circulation element, the legislative body shall modify the circulation element to plan for a balanced, multimodal transportation network that meets the needs of all users of streets, roads, and highways for safe and convenient travel in a manner that is suitable to the rural, suburban, or urban context of the general plan.

(B) For purposes of this paragraph, “users of streets, roads, and highways” mean bicyclists, children, persons with disabilities, motorists, movers of commercial goods, pedestrians, users of public transportation, and seniors.

Circulation Element Update

- ➔ Circulation Element Support
- ➔ Citywide Transportation Analysis
- ➔ VMT CEQA Analysis
 - ➔ CEQA §15183 (Streamlined Environmental Review)
- ➔ Highway 12 Analysis

Circulation Element Support

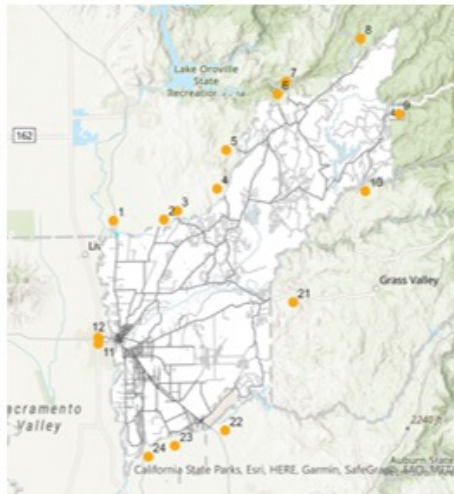
- ➔ Community values and needs
- ➔ Informed by 3 technical efforts (discussed below)
- ➔ Help frame key issues
- ➔ Translate key analysis findings into new policy and Implementation measures
- ➔ Establish the transportation system
- ➔ Documentation Support

Citywide Transportation Analysis

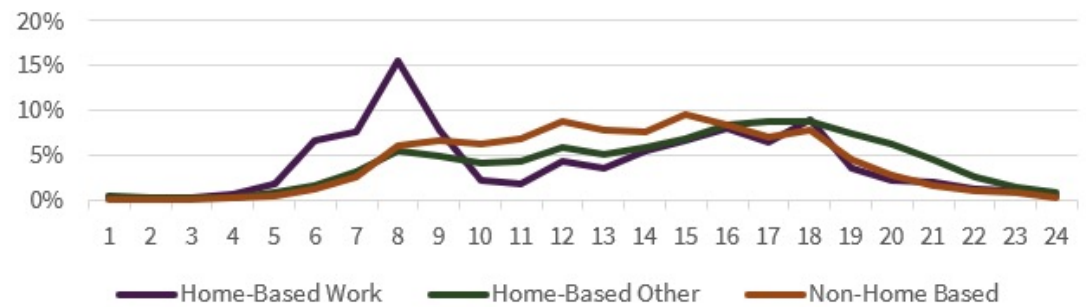
- ➔ Holistic
- ➔ Supported by Data
 - ➔ Current fleet (cars and trucks)
 - ➔ Who is traveling in Rio Vista
 - ➔ How people travel in Rio Vista
 - ➔ Where residents travel to
 - ➔ Where pass through traffic is traveling to/from
 - ➔ Safety (type, rate, and factors contributing to recent accidents)
- ➔ Forecasting
 - ➔ Correlate with Land Use Element

Citywide Transportation Analysis – Data Examples

➔ StreetLight Data (flows through a community)



Trip Distribution Throughout a Typical Weekday - 2021

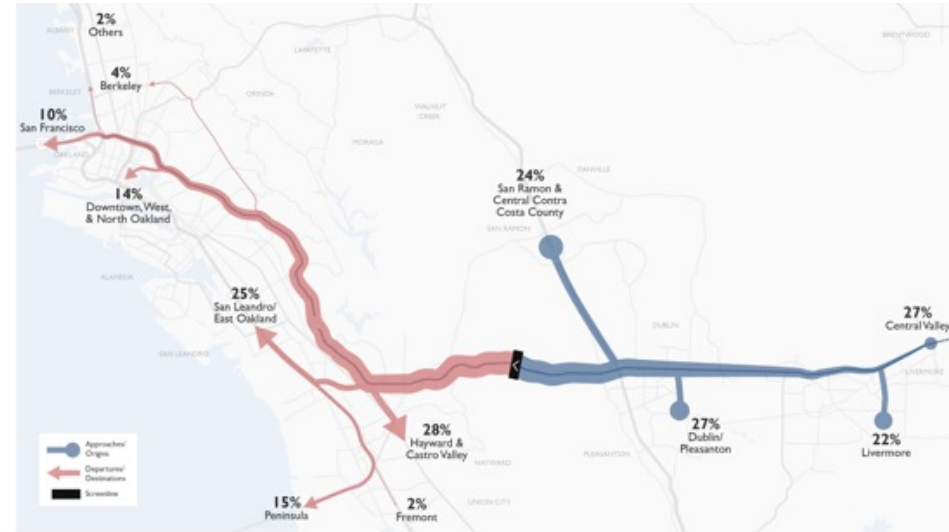
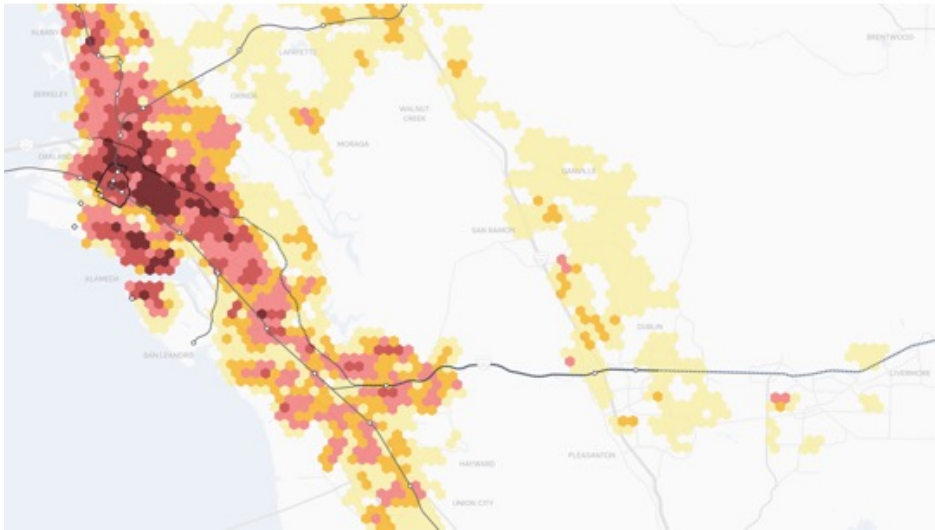


Total OD	1011	1012	1013	1021	1031	1032	1033	1034	1041	1051	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3021	3022	3023	3024	800/XX
1011	3,562	468	291	33	58	1,058	224	1,155	357	12	178	0	9	0	0	0	0	0	0	0	239	578	43	2,968	170	138	11,541
1012	409	11,652	317	1,194	90	7,314	709	704	1,389	560	1,231	152	7	5	5	0	0	0	0	0	2,780	10,011	386	1,138	67	1,444	41,564
1013	355	334	7,145	75	5	715	175	231	61	32	32	2	36	3	0	0	0	0	0	0	144	501	279	1,040	34	117	11,316
1021	33	901	57	1,895	0	303	30	21	363	611	155	51	191	99	5	0	0	4	0	3	0	917	1,140	187	4	328	7,298
1031	42	86	6	1	75	176	41	24	69	3	18	0	0	0	0	0	0	0	0	0	0	80	3	88	5	143	860
1032	1,066	6,946	733	348	174	23,964	2,241	1,180	1,489	184	785	43	10	0	0	0	0	8	0	3	2,301	6,076	324	1,892	218	3,306	53,291
1033	188	681	182	21	41	2,071	1,170	451	275	9	85	1	0	0	0	0	0	0	0	0	384	769	17	344	199	975	7,863
1034	1,186	735	277	30	20	1,117	418	4,105	300	10	80	0	0	0	0	0	0	0	0	0	480	892	40	281	655	3,404	14,030
1041	344	1,255	86	383	57	1,327	197	306	1,879	158	499	175	14	0	0	0	0	0	0	0	383	1,710	184	883	156	1,138	11,134
1051	13	440	15	591	5	106	12	9	121	4,006	3	41	24	160	140	150	77	37	0	475	0	422	259	60	0	183	7,429
3001	255	1,084	27	157	21	792	68	87	437	14	15,223	4	0	7	0	0	0	0	0	0	95	638	532	1,330	39	2,092	22,902
3002	0	114	0	122	0	46	0	7	167	57	3	1,915	18	1	5	0	0	0	0	0	121	74	24	0	0	73	2,747
3003	6	6	43	157	0	10	0	14	37	9	11	943	0	0	0	0	0	0	0	0	11	12	3	0	0	37	1,299
3004	0	4	0	98	0	0	0	0	240	3	0	0	1,257	6	0	0	0	0	0	47	0	2	93	2	0	0	1,752
3005	0	0	0	0	0	0	0	0	168	0	5	0	0	466	0	0	0	0	0	0	0	5	0	0	0	0	644
3006	0	0	0	6	0	0	0	0	189	0	0	0	0	0	576	0	0	0	0	0	0	0	0	0	0	0	771
3007	0	0	0	0	0	0	0	0	0	0	0	0	47	0	417	76	0	0	0	0	0	0	0	0	0	0	540
3008	0	12	0	8	0	0	0	0	31	0	0	0	0	11	0	0	271	0	0	0	0	20	0	0	0	0	355
3009	0	0	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	0	307	18	0	32	0	0	0	0	391
3010	0	0	0	5	0	0	0	0	449	3	0	4	28	0	0	0	0	0	53	1,627	0	5	0	0	0	0	2,174
3011	295	1,132	0	147	0	3,052	246	98	787	148	0	0	0	0	0	0	0	0	0	0	27,502	246	0	344	0	0	33,997
3012	342	10,232	506	883	68	4,566	502	633	1,580	452	475	136	27	19	0	0	16	0	7	287	47,908	619	1,380	58	292	70,988	
3021	35	409	280	1,033	1	304	18	20	220	297	498	65	10	134	0	0	0	4	9	0	571	8,171	26	0	235	12,340	
3022	2,787	1,024	990	198	69	1,954	371	319	865	69	1,240	4	0	0	0	0	0	0	0	0	815	1,705	32	25,754	21	28	38,245
3023	192	80	28	3	14	269	177	506	247	2	43	0	0	0	0	0	0	0	0	0	110	5	45	3,311	13	5,045	
3024	104	1,508	122	295	150	3,472	832	3,236	1,256	211	1,752	48	9	7	0	0	0	0	3	143	424	226	46	12	25,913	39,769	
800/XX	11,214	39,103	11,105	7,683	848	52,616	7,431	13,092	11,876	8,046	22,315	2,653	1,319	1,720	685	726	494	418	360	2,192	35,553	73,749	12,444	37,835	4,949	39,859	400,285

Citywide Transportation Analysis – Data Examples

➔ StreetLight Data (Origin-Destination Visualization)

Vehicle trip origins to Downtown Oakland
Origin to Preset Geography



Trip origins and destinations through
Dublin Grade Middle Filter

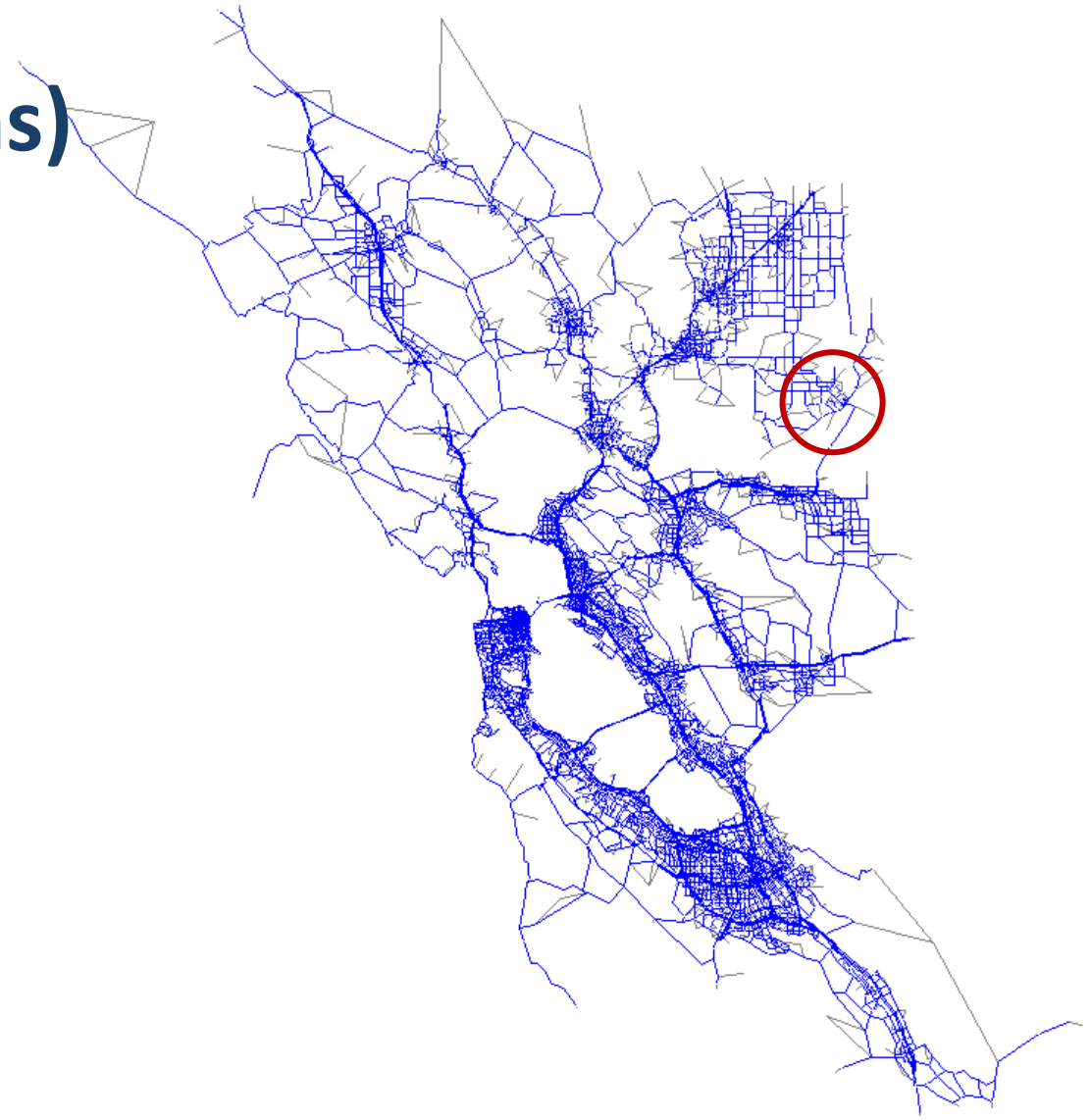
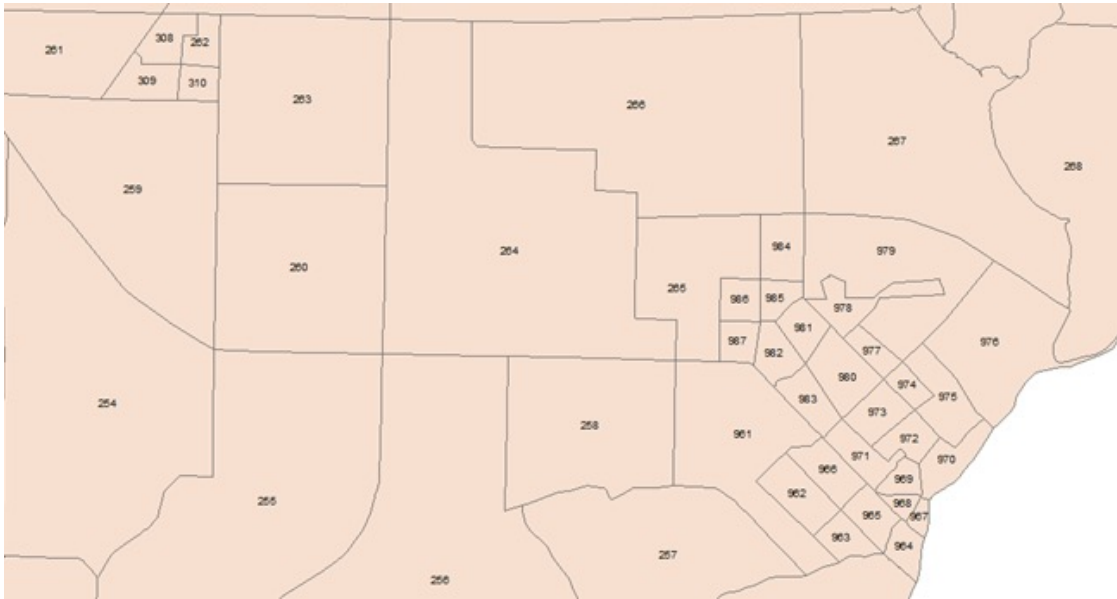
VMT CEQA Analysis

- ➔ VMT
- ➔ Evaluate data and tools
- ➔ Policy/Thresholds
- ➔ Mitigation
- ➔ CEQA §15183 (Streamlined Environmental Review)

Issues	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. TRANSPORTATION. Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VMT CEQA Analysis (Options)

- ➔ Travel Demand Model
- ➔ Household Survey Data
- ➔ Mobile Data



Highway 12 Analysis

- ➔ Focused
- ➔ Supported by Data
 - ➔ Current fleet (cars and trucks)
 - ➔ Who is traveling on Highway 12
 - ➔ Where are Highway 12 users traveling to/from
 - ➔ How frequently do Highway 12 users stop in Rio Vista
 - ➔ How do Rio Vista Bridge operations impact travel and congestion
 - ➔ How does travel vary by day of week and time of year
 - ➔ Safety (type, rate, and factors contributing to recent accidents)

Highway 12 Analysis

- ➔ Model Highway 12 traffic from new Rio Vista development
- ➔ Model Highway 12 traffic resulting from new growth outside Rio Vista (commuter traffic)
- ➔ Develop measures to reduce/manage Highway 12 congestion (short-, near-, and long-term)
 - ➔ Coordinated with Citywide Transportation Analysis

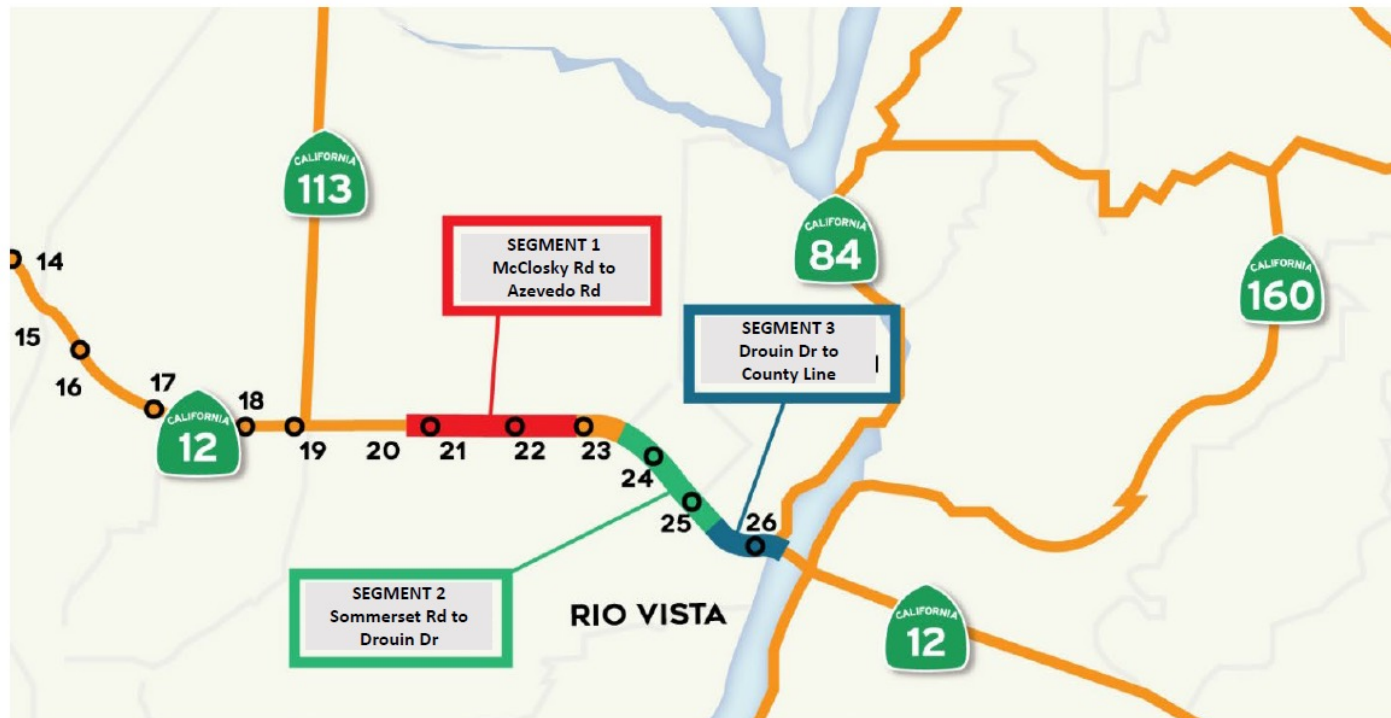
RELATED TRANSPORTATION PLANNING EFFORTS



Caltrans – SR 12 Rio Vista Complete Streets Update

➔ SR 12 Roadway Rehabilitation

PROPOSED PROJECT – Resurfacing Restoration Rehabilitation



Segment 3 – Drouin Drive to Sacramento County Line

SEGMENT 3 – Drouin Drive to Sacramento County line



- Rehab Pavement Cracks and Potholes
- Address Drainage Issues
- Complete Streets Improvements
 - Install Continuous ADA Accessible Sidewalks
 - Create New Pedestrian Crossing
 - Update Existing Crossings
 - Create Class 4 Protected Bike Lanes
 - Collaborate with City & County to Install Additional Streetscape Improvements

LEGEND

 Existing sidewalk to be replaced

 New sidewalk

 New/improved pedestrian crossing

 Bus Stop, (location TBD)

 Bike Lane Class 2








 Bike Lane Class 4

Solano County Active Transportation Plan – Rio Vista

- ➔ Framework to improve active transportation
- ➔ Combines previous separate plans
 - ➔ Bicycle Plan
 - ➔ Pedestrian Plan
 - ➔ Safe Routes to School
 - ➔ Safe Routes to Transit Plans

A Shared Vision

The Plan provides a set of seven values for the development of Solano's active transportation network. A set of seven goals, 17 objectives, and 56 actions support the values, and will help STA develop a regional active transportation network suitable for people of all ages and abilities. The seven values identified in the Plan include:

-  Access
-  Equity
-  Health and Safety
-  Quality of Life
-  Environmental Stewardship
-  Collaboration
-  Investment

Proposed Bicycle Network – Rio Vista (Draft)

Figure RV-19: Rio Vista Near-term Action Plan Bikeway Network

Rio Vista

STA
County Active Transportation Plan
**Bicycle Network -
Near-term Action Plan Facilities**

- Bikeways**
- Class I Multi-Use Path
 - Class II Bicycle Lane
 - Class II Buffered Bicycle Lane
 - Class III Bicycle Boulevard
 - Class III Bicycle Route
 - Class IV Separated Bikeway
 - Feasibility Study
 - Existing
 - Proposed
 - County
 - Jurisdictions
 - Parks
 - Water



Proposed Priority Pedestrian Projects – Rio Vista (Draft)

Figure RV-21: Proposed Priority Pedestrian Projects in Rio Vista



Solano County Local Road Safety Plan - August 2022

- ➔ LRSP creates a framework to systematically identify and analyze safety problems and recommend safety improvements
- ➔ Required to apply for Highway Safety Improvement Program (HSIP) funding
- ➔ Updated at least every five years

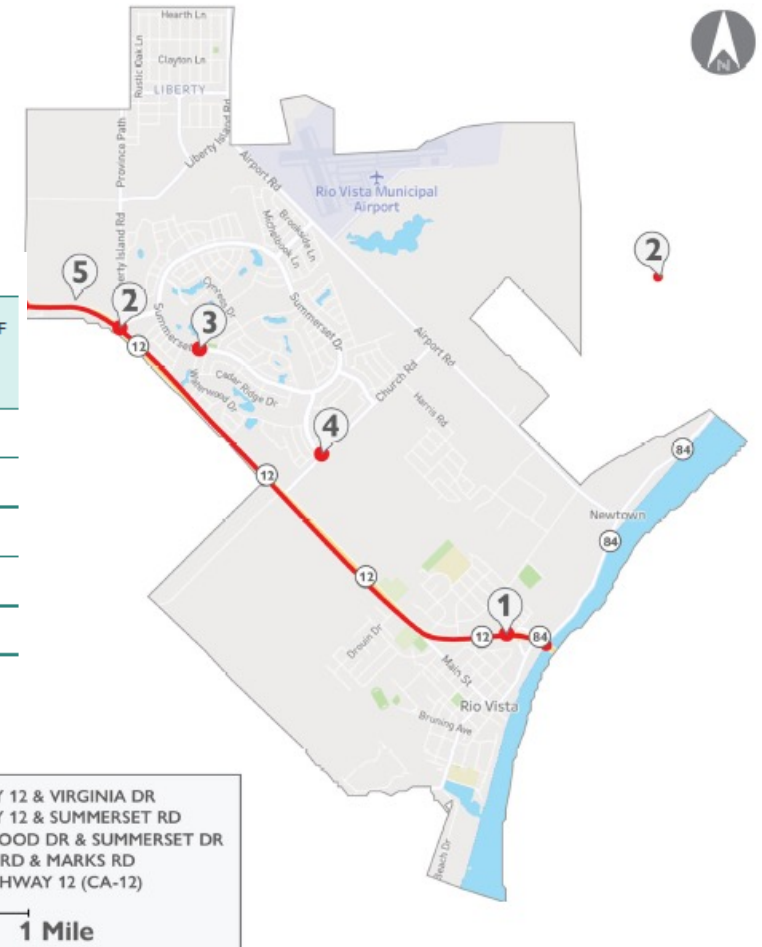
Solano County Local Road Safety Plan – Rio Vista



FIGURE 26: HEAT MAP OF ALL NON-INTERSTATE CRASHES WITHIN RIO VISTA.

TABLE 32: RIO VISTA HIGH CRASH LOCATIONS

#	LOCATION	IN 2018 PLAN?	KSI CRASHES	TOTAL CRASHES	EPDO SCORE	NUMBER OF EAs (4 max)
1	Highway 12 & Virginia Drive	No	1	11	270	3
2	Highway 12 & Somerset Road	Yes	1	11	239	4
3	Waterwood Drive & Somerset Drive	No	1	1	190	2
4	Church Road & Marks Road	No	1	1	190	1
5	Highway 12 (CA-12)	Yes	3	70	1013	4



1. HIGHWAY 12 & VIRGINIA DR
2. HIGHWAY 12 & SUMMERSET RD
3. WATERWOOD DR & SUMMERSET DR
4. CHURCH RD & MARKS RD
5. SR 12 HIGHWAY 12 (CA-12)

FIGURE 31: MAP OF RIO VISTA HIGH CRASH LOCATIONS

KEY TRANSPORTATION AND CIRCULATION ISSUES



Key Transportation and Circulation Issues

- ➔ Accessibility vs. Mobility
- ➔ Funding constraints (expansion and maintenance)
- ➔ Technology
 - ➔ Carshare, rideshare, bikeshare
 - ➔ Navigation apps
 - ➔ Intelligent Transportation Systems (ITS)
- ➔ Induced travel
- ➔ Safety
- ➔ Evacuation
- ➔ Caltrans coordination

ACCOMMODATING HIGHWAY 12 TRAFFIC



Highway 12

- ➔ Short- and near-term strategies (reduce/manage congestion)
 - ➔ Prioritize residents
 - ➔ Active transportation and safety
 - ➔ New technologies to manage events
- ➔ Long-term solutions
 - ➔ New bridge
 - ➔ Pricing

NEXT STEPS



NEXT STEPS

- ➔ Review Other General Plans
 - ➔ Extract goals and policies from existing documents
 - ➔ How have other communities managed State Highways
- ➔ Data Collection
- ➔ Evaluate planning tools
- ➔ Next GPWG meeting – November 3rd @ 5 PM

THANK YOU!

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