



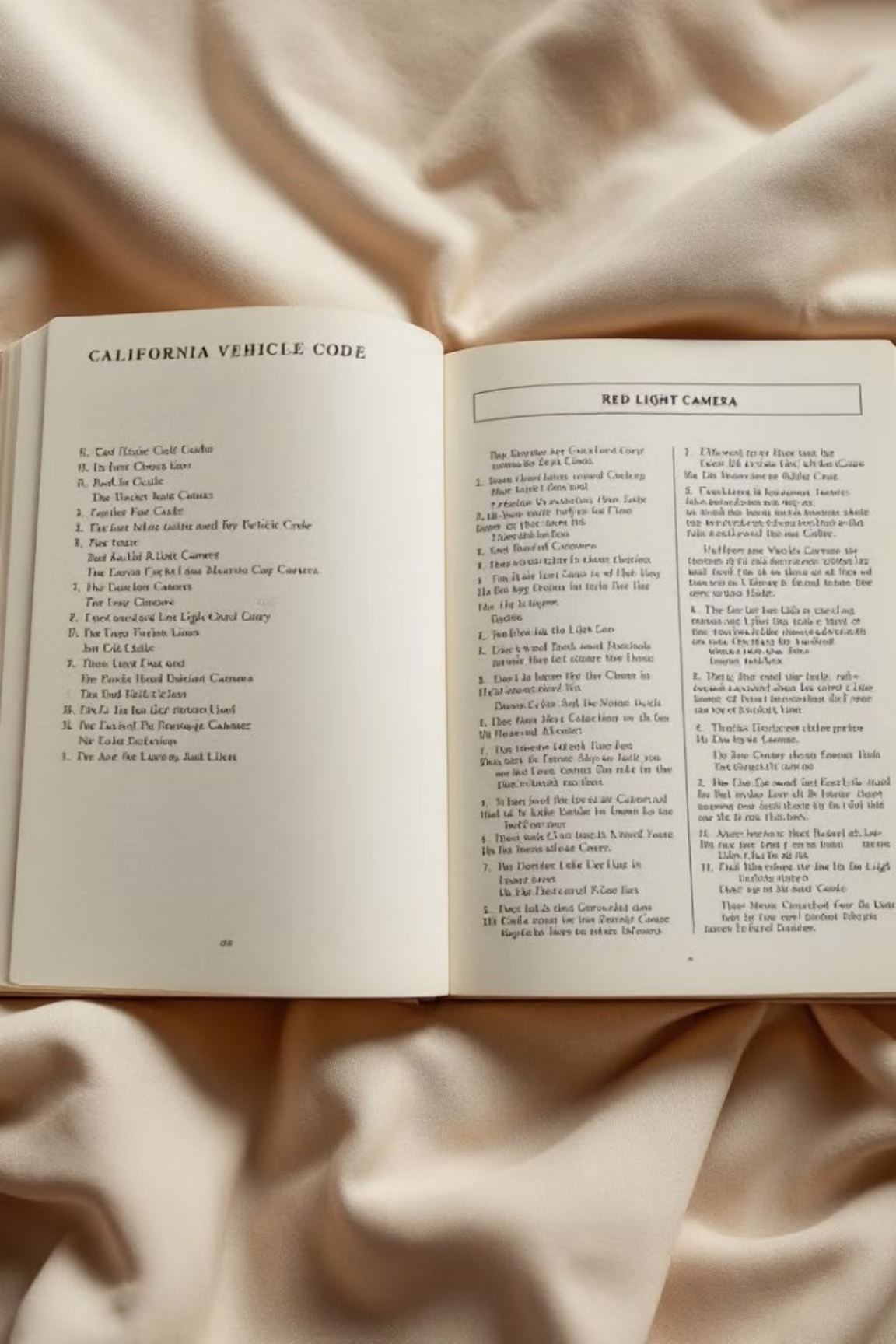
Automated Red Light Camera Enforcement Program

Feasibility study for City of Alameda Police Department

by Lt. Brian Foster

Key Findings

- 1 Governed by CA Vehicle Code 21455.5-21455.7
- 2 Must be managed by the Police Department
- 3 Council approval required and an identifiable safety need
- 4 Potential to be revenue-neutral



Red Light Enforcement

Traditional Method

Officer monitors intersection, stops violator, issues citation

Automated Method

Cameras running 24 hour/365 day per year enforcement via photo/HD video at Park St/Otis Dr and Webster St/Atlantic Ave.

2024 Statistics

112 red light citations, 3% of total collisions (26 in 2024)

Projected Violations

Approx. 35 violations per day at two proposed intersections, over 12000 violations per year

Collision Injuries

Approx. 50% of 2024 red light collisions involve some level of injury

Potential Safety Impact

Study showed the following impact on collisions from Automated Enforcement:

- Overall reduction in collisions at signalized intersections: 7%
- Overall reduction in injury collisions at signalized intersections: 29%
- Overall reduction in collisions most associated with red light violations: 32%
- Overall reduction in injury collisions most associated with red light violations: 68%

Historical Collision Data

Vision Zero Action Plan Analysis (Collision Date from 2009-2018)

During the creation of the City’s Vision Zero Action Plan, the collision data was analyzed from 2009-2018. Traffic sign and signal violations were identified as causing the following percentages of collisions during that period (Note: This data also includes collisions resulting from failure to stop at a stop sign, as the data was not parsed to individual violation types).

Collision Type	% of Total Collisions	% of Injury Collisions	% of Fatal/Serious Injury Collisions
Pedestrian-involved	3%	3%	3%
Motorcycle-involved	2%	5%	1%
Motor vehicle-only	11%	11%	0%
Bicyclists involved	11%	11%	6%

Proposed Implementation

Pilot Program

Two intersections: Park St./Otis Dr. and Webster St./Atlantic Ave.

Equipment

\$240,000 per intersection annually (Typically a 5 year contract)

Staffing

Additional part-time staff for violation review (950 hours annually)





Cost Breakdown

\$527,500

Total Annual Cost

For two intersections

\$47,500

Staff Cost

Part-time APD staff

\$480,000

Software System

Annual cost for two intersections

Additional installation costs to be determined

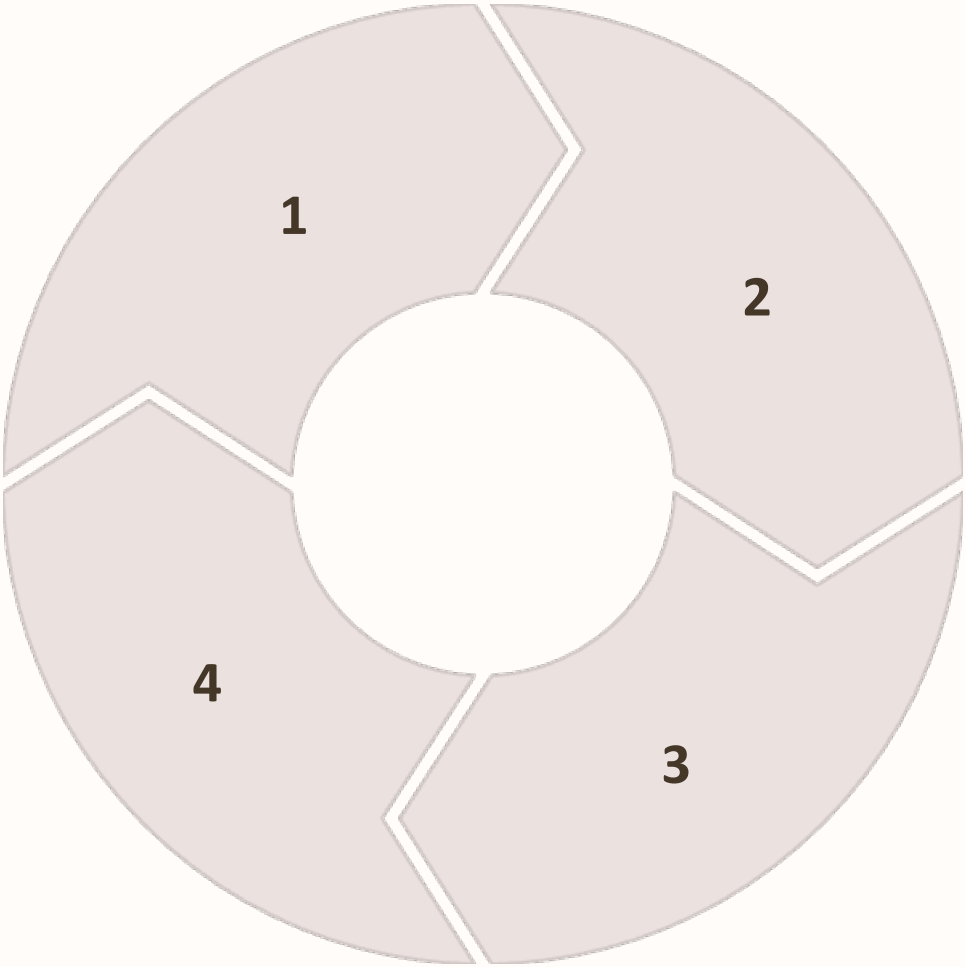
Potential Benefits

Reduced Collisions
Especially injury collisions

Improved Safety
For pedestrians and cyclists

Future Compatibility
With speed enforcement

Cost Recovery
Through fine revenues





Considerations

Privacy

Constant high-definition recording of vehicles and occupants

Data Retention

Footage kept for 6 months or until adjudication (Per CVC)

Policy Development

Needed to govern program and limit access



Alternatives

1

Implement Pilot Program

Two intersections, part-time staff

2

Wait for Speed Enforcement Legislation

Implement comprehensive program later

3

No Implementation

Continue current enforcement methods

Next Steps

