



Connecting Howe Avenue Safety & Mobility Plan

Existing Conditions Analysis Report

APRIL 2025

PREPARED FOR:

City of
SACRAMENTO



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Charisse Padilla, Project Manager

Jennifer Donlon Wyant, Mobility and Sustainability Division Manager

Ryan Dodge, Associate Planner

PREPARED BY DKS ASSOCIATES



Josh Pilachowski, Project Manager

Jim Damkowitch

Alexandra Haag

Sylinda Villado

Table of Contents

Introduction 1

 Project Background..... 1

 Policy Framework and Setting 1

Literature Review..... 4

 Sacramento County Fair Oaks Boulevard Complete Streets Master Plan (2017) . 4

 Vision Zero Action Plan (2018) 4

 Transportation Priorities Plan (2022) 5

 Climate Action & Adaptation Plan (2024) 5

 2040 General Plan – Environmental Justice Element (2024)..... 5

 Streets for People: Sacramento’s Active Transportation Plan (Draft 2024 to 2025) 6

Description of Howe Avenue..... 6

 Socioeconomic Characteristics..... 6

 Physical Characteristics 8

Existing Conditions Multimodal Analysis.....21

 Traffic Volumes at Study Intersections..... 21

 Transit Data Summary..... 22

 Level of Traffic Stress/All Ages and Abilities Walking and Biking Analysis 24

 Crash Analysis Summary..... 31

 Traffic Operations Analysis..... 40

 Travel Time Reliability and Congestion..... 44

Public Engagement Summary.....53

 Public Engagement Events..... 53

 Public Engagement Results 58

Existing Transportation Challenges and Constraints63

 Infrastructure for Walking/Rolling..... 65

 Infrastructure for Biking 65

 Transit Infrastructure..... 66

 Safety..... 67

 Right of Way 67

List Of Figures

Figure 1: Bike Facilities And Dismount Signage At Howe Avenue Bridge 10

Figure 2: Informal Pathway Between Sidewalk Gap On East Side Of Howe Avenue At Howe Avenue Bridge..... 11

Figure 3: Striped Crosswalk Across Westbound Us 50 On-Ramp..... 12

Figure 4: Howe Avenue Bus Stops, Form Of Traffic Control And Crosswalks ... 13

Figure 5. Howe Avenue Roadway Segments..... 14

Figure 6. Howe Avenue North Segment Location Map 18

Figure 7. Site Photo Of North Segment Roadway 18

Figure 8. North Segment: Howe Avenue (Fair Oaks Boulevard To Swarthmore Drive/University Park Drive) 18

Figure 9. Howe Avenue Middle Segment Location 19

Figure 10. Site Photo Of Middle Segment Operations 19

Figure 11. Middle Segment: Howe Avenue (Swarthmore Drive To La Riviera Access Road) 19

Figure 12. Howe Avenue South Segment Location 20

Figure 13. Site Photo Of South Segment Operations 20

Figure 14. South Segment: Howe Avenue - La Riviera Access Road To Power Inn Station 20

Figure 15: Existing Peak Hour Traffic Volumes And Form Of Traffic Control ... 22

Figure 16. Average Daily Transit Ridership For All Stops On Howe Avenue By Month (Source: Sacrt Stop Ridership Data) 23

Figure 17. Average Weekday Ridership By Stop On Howe Avenue (Source: Sacrt Stop Ridership Data) 24

Figure 18. Bike Level Of Traffic Stress Scores 25

Figure 19. Bicycle Segment Lts 27

Figure 20. Walking Level Of Traffic Stress 28

Figure 21. Walking Segment Lts	30
Figure 22: Howe Avenue Crash Map (All Crashes) Source: Transportation Injury Mapping System (Tims)	34
Figure 23: Howe Avenue Crash Map (Ksi Crashes) Source: Transportation Injury Mapping System (Tims)	35
Figure 24: Howe Avenue Crashes By Type (Source: Transportation Injury Mapping System (Tims)).....	36
Figure 25: Howe Avenue Crashes By Primary Crash Factor Howe Avenue Crashes By Type (Source: Transportation Injury Mapping System (Tims)).....	37
Figure 26: Crash Trends By Location	39
Figure 27. Relationship Between Average Travel Time And 95 th Percentile Travel Time	45
Figure 28. Autos A.M. Peak Hour Travel Time And Congestion	47
Figure 29. Autos P.M. Peak Hour Reliability And Congestion	48
Figure 30. Trucks A.M. Peak Hour Reliability And Congestion.....	49
Figure 31. Trucks P.M. Peak Hour Reliability And Congestion	50
Figure 32. Autos And Trucks A.M. Peak Hour Reliability And Congestion.....	51
Figure 33. Autos And Trucks P.M. Peak Hour Reliability And Congestion.....	52
Figure 34. Connecting Howe Avenue Safety & Mobility Plan Project Web Page	55
Figure 35. Interactive Comment Map	56
Figure 36. Community Survey	57
Figure 37. Comment Type By Intersection (Social Pinpoint And Survey).....	59
Figure 38. Social Pinpoint Comment By Type.....	60
Figure 39. Community Survey - Question 2: How Often Do You Typically Travel On Howe Avenue?	61
Figure 40. Community Survey - Question 3: How Do You Typically Travel On Howe Avenue?.....	61
Figure 41. Community Survey - Interest In Improved Walking Conditions.....	62
Figure 42. Community Survey - Interest In Walking And Bicycling Crossings..	62

Figure 43. Community Survey - Interest In Improving Driver Safety	63
Figure 44. Infrastructure Gaps And Constraints	64

List of Tables

Table 1. Summary of Existing Characteristics of Howe Avenue Segments	15
Table 2. Bicycle Level of Traffic Stress Criteria	26
Table 3. Walking Level of Traffic Stress Criteria	29
Table 4: Crashes by Severity	33
Table 5: Crashes by Segment	34
Table 6: Level of Service Criteria Definitions	41
Table 7: Existing Conditions Operational Analysis Results.....	42
Table 8: 95 TH Percentile Queuing Results at Study Intersections	43
Table 9. Congestion and Reliability Performance Measures	46

Introduction

Project Background

Howe Avenue is a multimodal corridor in Sacramento, California, serving as a major connection across the American River and classified as an arterial in the city's transportation network. Howe Avenue is identified as a part of the High Injury Network in the City of Sacramento's Vision Zero Action Plan¹ (2018), which means that the corridor experiences a high volume of fatal and serious injury crashes for persons walking, biking, rolling and driving on Howe Avenue.

The Connecting Howe Avenue Safety & Mobility Plan (Plan), funded through a Caltrans Sustainable Transportation Planning Grant, supports Sacramento's commitment to equitable engagement by involving local communities in identifying their transportation needs. The plan aims to improve safety and mobility for all road users by evaluating current conditions and proposing improvements to eliminate barriers, improve access, and address community priorities. The project limits are along Howe Avenue from Fair Oaks Boulevard to the Sacramento Regional Transit (SacRT) Power Inn Light Rail Station just south of Folsom Boulevard.

Policy Framework and Setting

In 2019, the City of Sacramento adopted a Complete Streets Policy² which confirms the City's commitment to Complete Streets to ensure that future transportation projects support a safer, accessible, and connected multi-modal transportation network.

On February 27, 2024, the City adopted the Sacramento 2040 General Plan and Climate Action & Adaptation Plan. The General Plan lists several goals, policies, and implementation measures for the City. The Mobility element of the 2040 General Plan outlines several policies that are related to the Howe Avenue Safety & Mobility Plan.

The following policies relate to Howe Avenue:

- M-1.1. *The City shall maintain a street classification system that considers the role of streets as corridors for movement but prioritizes a context-sensitive Complete*

¹ City of Sacramento. (2018). *Vision Zero action plan*.

<https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/VisionZero/Vision-Zero-Action-Plan-Adopted-August-2018.pdf>

² City of Sacramento, Department of Transportation. (2019). *Approving environmental review of and adopting a complete streets policy* (Report No. R2019-0460). City of Sacramento.

<https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/Transportation-Planning/R2019-0460-Approving-Environmental-Review-of-and-Adopting-a-Complete-Streets-Policy.pdf>

Streets concept that enables connected, comfortable, and convenient travel for those walking, rolling, and taking transit.

- *M-1.2. The City shall prioritize mobility, comfort, health, safety, and convenience for those walking, followed by those bicycling and riding transit, ahead of design and operations for those driving.*
- *M-1.4. In planning, designing, and managing the transportation system, the City shall prioritize person throughput to shift trips to more efficient travel modes and upgrade the performance of limited street space.*
- *M-1.5. The City shall maintain street design and operations standards that prioritize comfort and travel time for walking, bicycling, and transit, while managing vehicle speeds and traffic volumes, updating them as best practices evolve.*
- *M-1.6. Wherever feasible, the City shall design buildings, the public realm, streets, and pedestrian access to integrate transit into existing neighborhoods and proposed developments and destinations such as schools, employment centers, commercial centers, major attractions, and public walking spaces to improve access for users by transit.*
- *M-1.8. When designing projects, the City shall prioritize designs that strengthen the protection of people bicycling such as improvements that increase visibility of bicyclists, increase bikeway widths, raise bikeways, design safer intersection crossings and turns, and separate bikeways from driving traffic wherever feasible.*
- *M-1.9. The City shall ensure that the transportation system is planned and implemented with an equitable process to achieve equitable outcomes and investments so that all neighborhoods one day will have similar levels of transportation infrastructure such as sidewalks, marked low stress crossings, and bikeways.*
- *M.1.11. The City shall strive to increase bicycling and walking citywide so that it can meet its equity, reduced vehicle miles traveled, and sustainability goals.*
- *M-1.12. Through the development approval process and public and private investments, the City shall foster additional walking and bicycling connections to light rail stations and strengthen existing connections to enhance first/last mile connectivity and make it easier to travel between the station and surrounding neighborhoods and destinations. As feasible, connections should include pedestrian-level streetlighting and tree-shading.*
- *M-1.13. The City shall design streets to prioritize walking by including design elements such as the following:*
 - *Grid networks that provide high levels of connectivity;*
 - *Closely spaced intersections;*
 - *Frequent and low-stress crossings;*
 - *Wide, unobstructed walkable sidewalks;*
 - *Separation from vehicle traffic;*

- *Street trees that provide shading; and*
 - *Minimal curb cuts.*
- *M-1.14. The City shall work to complete the network of tree-shaded sidewalks throughout the city, to the greatest extent feasible by building new sidewalks and crossings, especially within the high-injury network, in disadvantaged communities, near high-ridership transit stops, and near important destinations, such as schools, parks, and commercial areas. Walking facilities should incorporate shade trees.*
- *M-1.15. The City shall require new subdivisions, new multi-unit dwelling developments, and new developments along commercial corridors to include well-lit, tree-shaded walkways where feasible, that provide direct links to the public realm or adjacent public destinations such as transit stops and stations, schools, parks and shopping centers.*
- *M-1.16. The City shall remove barriers to walking, where feasible, and work with utility companies to remove barriers to allow people of all abilities to move with comfort and convenience throughout the city, including through the following:*
 - *Provisions of curb ramps, crosswalks, and overpasses;*
 - *Relocation of infrastructure of street furniture that impedes travel pathways;*
 - *Reducing or consolidating driveways and curb cuts;*
 - *Providing long and short-term bicycle and scooter parking to minimize sidewalk obstructions; and*
 - *Creation of additional walking entrances to important destinations like schools, parks, and commercial areas.*
- *M-1.17. The City shall plan and seek funding for a continuous, low-stress bikeway network consisting of bicycling-friendly facilities that connect neighborhoods with destinations and activity centers throughout the city.*
- *M-1.18. When designing projects, the City shall prioritize designs that strengthen the protection of people bicycling such as improvements that increase visibility of bicyclists, increase bikeway widths, raise bikeways, design safer intersection crossings and turns, and separate bikeways from driving traffic wherever feasible.*
- *M-1.19. When designing projects, the City shall prioritize designs that encourage walking and improve walking safety best practice designs and considerations for efficiencies in walking.*
- *M-1.20. The City shall collaborate with the Sacramento Regional Transit District (SacRT) to facilitate the implementation of high-frequency transit service on a network of interconnected corridors with characteristics that best support high-frequency transit service and those characteristics that meet City goals, managing corridor operations to provide for adequate transit vehicle speed and reliability.*
- *M-1.25. The City shall support "first-mile, last-mile solutions" such as e-bikes/e-scooters as well as multimodal transportation services, public realm improvements (e.g., bicycle parking infrastructure), and other innovations in the areas around*

transit stations and major bus stops (transit stops) to maximize multimodal connectivity and access for transit riders.

- M-1.26. *The City shall encourage the Sacramento Regional Transit District (SacRT) to implement bus shelter design that encourages transit use, informed by ADA-compliance, bus stop placement, and passenger safety best practices. Where feasible, the City should collaborate with SacRT on bus stop designs for major corridor improvement projects.*

Within the 2040 General Plan is the Arden Arcade Community Plan, which identifies policies specific to the Arden Arcade neighborhood, including Howe Avenue. There are no policies provided in the Arden Arcade Community Plan section that are specific to Howe Avenue or the Howe Avenue Safety & Mobility Plan that supplement the citywide General Plan policies.

Literature Review

The City has developed several planning studies that overlap or are relevant to planning efforts on the Howe Avenue study corridor. This section provides a brief literature review of several key plans and policies by the City of Sacramento, focusing on their relevance to Howe Avenue.

Sacramento County Fair Oaks Boulevard Complete Streets Master Plan (2017)

The Fair Oaks Boulevard Complete Streets Master Plan was developed by the Sacramento County Department of Transportation (SacDOT) to envision a complete streets corridor on Fair Oaks Boulevard from Howe Avenue to Munroe Street. The Plan notes that there are no bicycle facilities on Fair Oaks Boulevard from Howe Avenue to Munroe Street. The Plan also describes the Fair Oaks Boulevard and Howe Avenue intersections as a conflict point for people walking and biking and that the intersection is uncomfortable to cross.

Vision Zero Action Plan (2018)

In January 2017, the City adopted a goal to eliminate traffic fatalities and serious injuries³. Howe Avenue is identified in the City of Sacramento Vision Zero Action Plan as a

³ City of Sacramento. (2017). *Adopted Resolution No. 2017-0032: Vision Zero*. Retrieved from <https://www.cityofsacramento.gov/content/dam/portal/pw/Transportation/VisionZero/Adopted-Reso-2017-0032-Vision-Zero.pdf>.

High Injury Corridor. The Sacramento Vision Zero Action Plan aims to support the City's General Plan in maintaining safety and health of its residents and visitors.

The Vision Zero Action Plan analyzes crash trends and patterns across the city, providing both short- and long-term strategies to improve transportation safety. By implementing these measures, the plan aims to eliminate fatal and severe injury crashes. In the Vision Zero Plan, Howe Avenue was associated with the following crash profiles: Unsafe speed on non-local streets, alcohol involved, 35+ mph streets, 30+ mph - bicycle involved, and driver making left or right turn - bicycle involved.

Regular updates incorporate new traffic data and measure progress toward achieving this critical safety goal.

Transportation Priorities Plan (2022)

In November 2022, the City adopted the Transportation Priorities Plan (TPP), a comprehensive framework for identifying and funding critical transportation projects. The TPP outlines priority areas, funding sources, and the city's most pressing transportation needs, providing a clear roadmap for future improvements.

Among its identified projects, the TPP designates several initiatives on Howe Avenue as medium priority, including bridge replacement, streetscape enhancements, and improved bike lane connectivity to adjacent corridors.

Climate Action & Adaptation Plan (2024)

On February 27, 2024, the City adopted the Climate Action and Adaptation Plan (CAAP), which details strategies to reduce greenhouse gas (GHG) emissions by 2030. Building on the framework established by the City's 2012 Climate Action Plan, the CAAP underscores active transportation—such as walking, cycling, and other sustainable travel modes—as a cornerstone of its efforts to achieve these ambitious goals. By prioritizing investments in active transportation and enhancing connectivity to public transit hubs like the Power Inn Light Rail Transit (LRT) Station, the plan aims to decrease reliance on single-occupancy vehicles, thereby reducing GHG emissions and improving residents' quality of life.

2040 General Plan – Environmental Justice Element (2024)

The Sacramento 2040 General Plan includes an Environmental Justice Element, which identifies disadvantaged communities (DACs) and outlines specific actions the City will take to improve residents' quality of life. The Environmental Justice Element establishes six key goals: ensuring clean air and water, increasing food access, providing safe housing, fostering civic engagement, addressing inequities by empowering disadvantaged communities, and building neighborhood resilience.

DAC designation is based on various factors, including pollution levels, income, and access to food resources. Areas near Howe Avenue, west of College Town Road, and south of Folsom Boulevard are identified as disadvantaged communities under this framework.

Streets for People: Sacramento's Active Transportation Plan (Draft 2024 to 2025)

Streets for People: Sacramento's Active Transportation Plan (S4P), currently in draft form, seeks to transform how residents navigate the city by enhancing infrastructure for walking, biking, and other active modes of travel. Serving as a comprehensive guide for city staff, local agencies, public officials, residents, and developers, the S4P plan aims to create a balanced and interconnected transportation system that supports diverse travel modes while fostering active lifestyles. A central focus of the plan is to prioritize infrastructure improvements in historically underserved communities, ensuring equitable access to safe and sustainable transportation options.

The Draft S4P focuses on improving walking and bicycling infrastructure through two primary networks: a citywide active transportation network and the Neighborhood Connections network. While portions of Howe Avenue are identified for improvements in the Draft Streets for People Plan, it is not identified on the Neighborhood Connections network. However, several adjacent corridors to Howe Avenue are identified on the Neighborhood Connections network including University Avenue, Swarthmore Drive/University Park Drive, and Scripps Drive which include potential traffic calming and other improvement projects.

Description of Howe Avenue

This section provides a physical description of Howe Avenue and the surrounding community's socio-economic characteristics.

Socioeconomic Characteristics

The Sacramento Area Council of Governments (SACOG) defines Environmental Justice (EJ) areas at the census block group level, focusing on concentrations of low-income residents, high minority populations, persons with disabilities, low educational attainment, housing cost burdened households, or areas highlighted by CalEnviroScreen 3.0.

Based on SACOG's definition, areas adjacent to the study corridor are classified as EJ communities⁴. Notably, neighborhoods near the U.S. Route 50 overpass and Sacramento State University fall within these designations. These areas are also recognized as Senate Bill (SB) 535 Disadvantaged Communities in the City of Sacramento's 2040 General Plan. Howe Avenue, in particular, experiences high pollution burden scores, especially near U.S. Route 50 and Folsom Boulevard. The United States Environmental Protection Agency (EPA) Climate and Economic Justice Screening Tool (CEJST) identifies sections of Howe Avenue between U.S. Route 50 and Folsom Boulevard as exceeding thresholds for poverty and low high school educational attainment⁵⁶.

The socioeconomic characteristics of the Howe Avenue corridor reflect a diverse community. According to the American Community Survey (ACS) 5-Year Estimates, approximately 15,000 residents live in the four census tracts surrounding the project area⁷. The average median household income across these tracts is \$85,195, exceeding the citywide median of \$78,954. However, there is significant variation:

- Three tracts reported median incomes ranging from \$86,012 to \$122,871.
- One tract, encompassing communities near Sacramento State and the American River, reported a much lower median household income of \$35,333⁸.
- Poverty rates in these tracts vary widely, ranging from 3.9% to 42.7%, compared to the citywide average of 14.8%⁹.

While the median household income in the area exceeds the citywide median, there is notable variation. One census tract near Sacramento State reports a much lower median income (\$35,333), likely due to the high student population. Environmental justice communities and lower-income residents often depend on public transit and non-motorized travel. The corridor serves older adults, persons with disabilities, linguistically isolated households, and single-parent families, all of whom rely on a mix of transportation modes, including walking, biking, and transit.

⁴ SACOG. (n.d.). *Environmental justice areas*. SACOG Open Data Portal. Retrieved January 9, 2025, from <https://www.sacog.org/data/environmental-justice-areas>

⁵ City of Sacramento. (2024). *2040 General Plan: Map EJ-3: Census tracts with highest pollution burden score*. Retrieved from <https://www.cityofsacramento.org/community-development/planning/long-range/general-plan/2040-general-plan>

⁶ Council on Environmental Quality. (2024). *Climate & Economic Justice Screening Tool* (Version 2.0). GeoPlatform. Retrieved January 9, 2025, from <https://screeningtool.geoplatform.gov/en/#3/33.47/-97.5>

⁷ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S0101). Retrieved from <https://data.census.gov/table?tid=ACSST5Y2023.S0101>

⁸ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S0901). Retrieved from <https://data.census.gov/table?tid=ACSST5Y2023.S0901>

⁹ U.S. Census Bureau. (2024). American Community Survey 5-Year Estimates Subject Tables (Table S1701). Retrieved from <https://data.census.gov/table?tid=ACSST5Y2023.S1701> ACS 5-Year Estimates, Table S1701

Physical Characteristics

Howe Avenue is a north-south arterial corridor connecting the Arden-Arcade community and California State University Sacramento to the regional transportation network. It links major roadways, including Interstate 80 (I-80), U.S. Route 50, and California State Route 16. South of I-80 and Folsom Boulevard, Howe Avenue is a designated Surface Transportation Assistance Act (STAA) truck route. The corridor consists of four to six travel lanes and features a raised, landscaped center median for most of its length, except at the Howe Avenue Bridge, which is made up of separated roadway structures for each direction of travel.

The study corridor includes seven major signalized intersections at:

- Fair Oaks Boulevard
- University Avenue
- American River Drive
- Swarthmore Drive/University Park Drive
- College Town Drive/U.S. 50 westbound off-ramp
- The U.S. 50 eastbound off-ramp
- Folsom Boulevard

The right-of-way (ROW) varies from 90 to 115 feet, narrowing to approximately 30 to 35 feet on the Howe Avenue Bridge. Lane widths are approximately 11 feet through the length of the study corridor; and narrow to approximately 10 to 10.5 feet at the Howe Avenue Bridge. Per the City's standards, the minimum lane width for travel lanes is 11 feet unless the City Traffic Engineer deems appropriate otherwise¹⁰.

Traffic Speeds and Lane Configurations:

Traffic speeds and lane configurations vary along the corridor:

- From Fair Oaks Boulevard to American River Drive and College Town Drive to Folsom Boulevard, the speed limit is 40 mph, with three lanes in each direction.
- Between American River Drive and College Town Drive, the speed limit increases to 50 mph, maintaining three lanes per direction except on the Howe Avenue Bridge, which narrows to two lanes per direction.
- All signalized intersections and approaches have dedicated left turn pockets where there is a valid left turn, except for northbound Howe Avenue at College Town Drive.
- No on-street parking is allowed along Howe Avenue.

¹⁰ [City of Sacramento, Section 15 - Street Design Standards](#)

According to a speed survey provided by the City of Sacramento, 85th percentile speeds on Howe Avenue are as follows:

- 43.6 mph between Cadillac Drive and American River Drive (posted 40 mph speed limit).
- 52.4 mph from American River Drive to U.S. 50 (posted 40-50 mph speed limit).
- 41.5 mph from U.S. 50 to Folsom Boulevard (posted 40 mph speed limit).

Bicycle Infrastructure:

Howe Avenue has bike lanes south of University Avenue, each approximately five feet wide. These lanes connect to the broader bicycle network via the American River Parkway shared-use path and painted bike lanes on American River Drive, University Avenue, and La Riviera Drive.

While Howe Avenue is shown with Class II bicycle facilities (bike lanes) on the City of Sacramento Bike Map, field observations indicate that the approximately five-foot wide shoulder lacks the standard painted markings and signage that would distinguish it as a dedicated bicycle lane. There is a southbound facing sign on the northbound side of the road instructing people biking to dismount and walk their bicycle on the northern approach to the Howe Avenue Bridge (**Figure 1**).

Based on the Federal Highway Administration (FHWA) Bikeway Selection Guide, the existing bike lanes do not provide adequate protection for cyclists on this corridor. The guide recommends greater separation between vehicles and cyclists when roadways have speeds of 35 mph or higher and traffic volumes exceeding 6,000 vehicles per day. Given that Howe Avenue has a posted speed limit of 50 mph and carries up to 30,000 vehicles per day, the current bikeway does not align with FHWA's guidance for recommended bicycle infrastructure.

The City of Sacramento's bicycle facility selection guidance similarly recommends a separated bikeway for roadways with posted speeds exceeding 45 mph and average daily traffic over 20,000 vehicles per day. With Howe Avenue's posted speeds and observed traffic volumes ranging from 46,000 to 59,000, the existing bike lanes do not provide the level of separation from vehicle traffic recommended by either FHWA or City design standards.



Figure 1: Bike Facilities and Dismount Signage at Howe Avenue Bridge

Sidewalks:

Most of the study corridor has sidewalks, but gaps exist in the network. On the west side of Howe Avenue, missing sidewalk segments and their approximate lengths are:

- American River Drive to the Swarthmore Drive: 1,400 feet;
- Swarthmore Drive to the University Avenue overcrossing: 940 feet;
- University Avenue overcrossing to the Howe Avenue Bridge: 240 feet.

On the east side of Howe Avenue, a sidewalk gap extends from the La Riviera overcrossing to Folsom Boulevard, a distance of approximately 2,640 feet. No signage alerts people walking southbound on the east side of Howe Avenue that they must walk on the shoulder after crossing the bridge.

Where sidewalks are present, they are approximately five to six feet in width but narrow to approximately 4.5 feet near the University Avenue overcrossing and the Howe Avenue Bridge. In some locations, informal asphalt paths connect sidewalk gaps (**Figure 2**).



Figure 2: Informal Pathway between Sidewalk Gap on East Side of Howe Avenue at Howe Avenue Bridge

Marked Crosswalks:

All study intersections are equipped with pedestrian signals, push buttons, and marked crosswalks. Curb ramps are present at all crossing locations; however, detectable warning surfaces and landing areas are missing at the following intersections:

- American River Drive
- Swarthmore Drive
- College Town Drive
- Folsom Boulevard

Crossings are not provided on the south legs at the American River Drive and Swarthmore Drive/University Park Drive intersections due to a lack of sidewalks on the west side of Howe Avenue.

At the College Town Drive/WB US 50 Off-ramp and EB US 50 Off-ramp intersections, crosswalks are only available on the west legs due to the lack of sidewalks on the east side of Howe Avenue.

At the US 50 interchange, the westbound US 50 on-ramp (**Figure 3**) includes painted crosswalks and curb ramps with detectable warning surfaces. However, no pedestrian signals or traffic control devices are in place to stop vehicles for those wishing to cross. As a result, those walking must rely on drivers yielding to them. Additionally, no warning signs or other measures alert drivers to potential people crossing. Any modifications to crosswalks at the US 50 on- or off-ramps would require coordination with Caltrans.



Figure 3: Striped Crosswalk Across Westbound US 50 On-Ramp

Transit Access:

The SacRT Power Inn Light Rail Station, connecting to the Gold Line, is located south of the study corridor on the east side of the street, just south of Folsom Boulevard, where Howe Avenue transitions to Power Inn Road (**Figure 5**). The Gold Line runs primarily east-west, connecting downtown Sacramento to the city of Folsom. Its route passes through multiple neighborhoods in Sacramento (downtown Sacramento, Richmond Grove, Newton Booth, Midtown, Alhambra Triangle, East Sacramento, Elmhurst, Tahoe Park, Tahoe Park East, Ramona Village, College Town, and College Glen), portions of unincorporated Sacramento County, Rancho Cordova, and Gold River.

Within the study area, SacRT Bus Route 26 operates along Howe Avenue with bus stops at Swarthmore Drive and American River Drive (see **Figure 4**). It connects Watt Avenue & Elverta Road in the north to the University/65th Street Light Rail Station in the south.

Service Schedule for Route 26:

- Weekdays: Service runs from approximately 6:00 a.m. to 11:00 p.m.
- Saturdays: Service runs from approximately 8:00 a.m. to 10:45 p.m.
- Sundays: Service runs from approximately 8:00 a.m. to 9:15 p.m.

The frequency of service varies throughout the day, with buses typically running every 30 minutes during peak hours and every 60 minutes after 7:00 p.m.

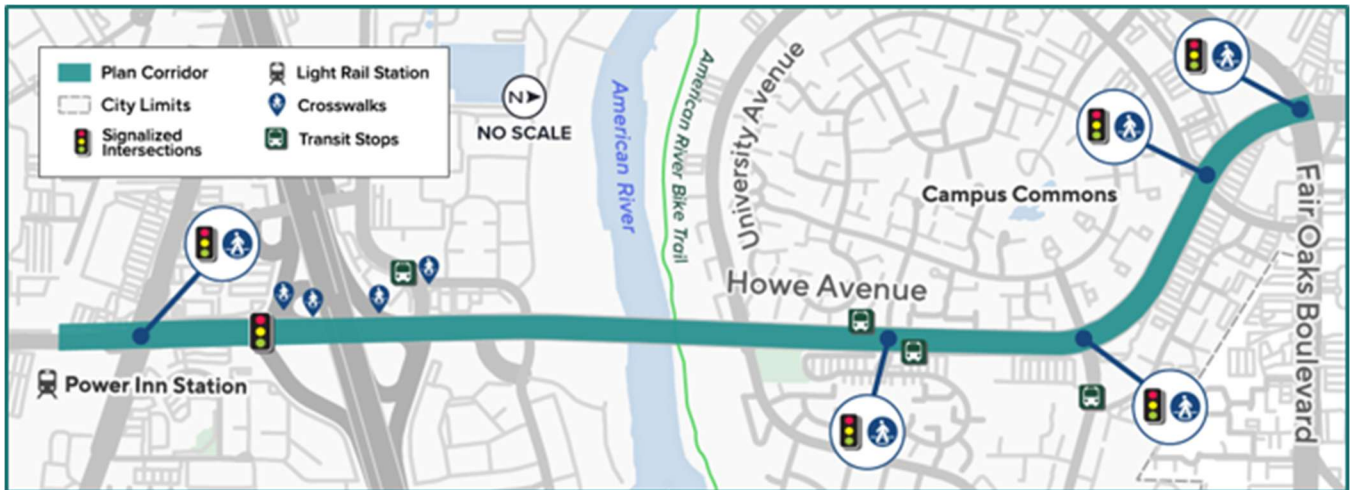


Figure 4: Howe Avenue Bus Stops, Form of Traffic Control and Crosswalks

Corridor Summary and Study Area Segments

Table 1 summarizes the existing conditions and key characteristics of each road segment within the corridor. For this study, the corridor is divided into northern, middle, and southern segments based on similar physical and operational characteristics, as shown in **Figure 5**.

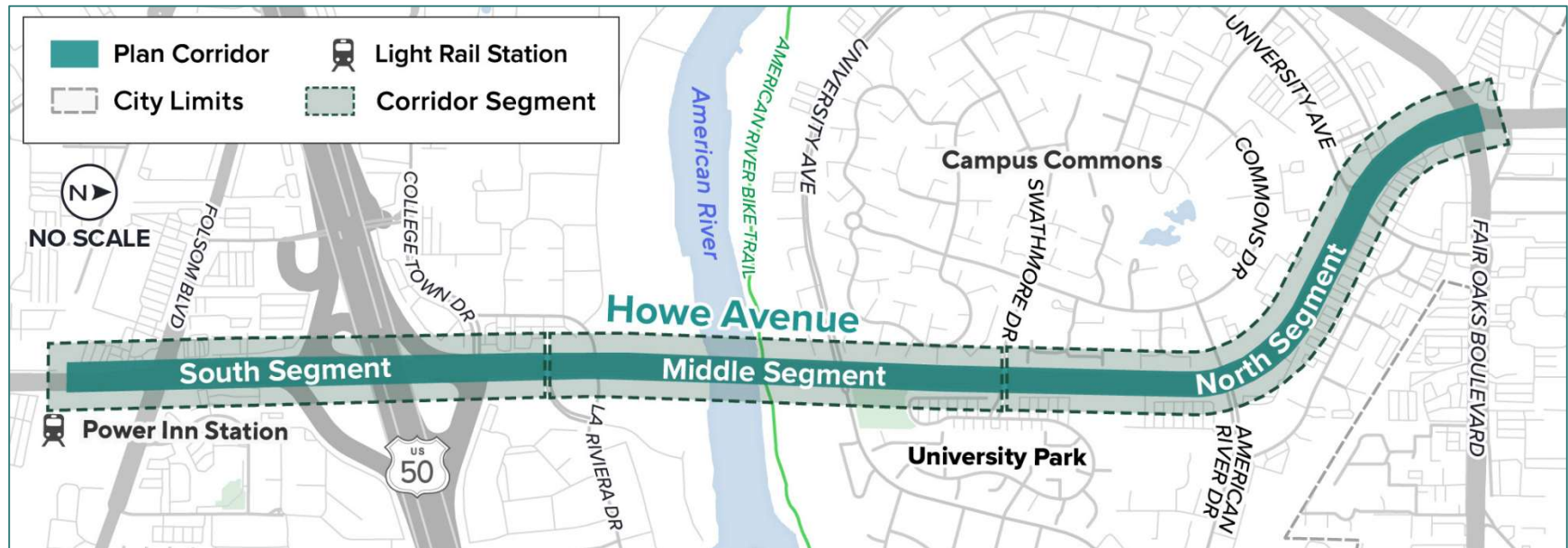


Figure 5. Howe Avenue Roadway Segments

Table 1. Summary of Existing Characteristics of Howe Avenue Segments

Characteristic	North Segment (Figure 3)	Middle Segment (Figure 4)	South Segment (Figure 5)
Boundaries	Fair Oaks Boulevard to Swarthmore Drive/University Park Drive	From Swarthmore Drive/University Park Drive to La Riviera Access Road	La Riviera Access Road to Power Inn Light Rail Station
Length (Approx)	4,200 ft	3,175 ft	3,175 ft
Number of Lanes (Per Direction)	Three	Two to Three	Three
Lane Width	11 ft	10-12 ft	12 ft
AADT¹¹	46,000 (At Fair Oaks Ave)	no data	59,000 (At WB US 50 ramps)
Posted Speed Limit	40 MPH - Fair Oaks to American River Drive 50 MPH – American River Dr to Swarthmore Drive/University Park Drive	50 MPH	40 MPH
Observed Speed¹²	43.6 – Cadillac Drive to American River Drive 52.4 – American River Drive to US 50	52.4 – American River Drive to US 50	41.5 – US 50 to Folsom Boulevard
Lighting	Street Lighting	Street and Pedestrian-Scale Lighting	Street and Pedestrian-Scale Lighting

¹¹ 2017 traffic counts provided for North Segment and South Segment, <https://data.cityofsacramento.org/datasets/SacCity::traffic-counts/about>

¹² Based on recent speed survey's conducted by the City of Sacramento.

Characteristic	North Segment (Figure 3)	Middle Segment (Figure 4)	South Segment (Figure 5)
Adjacent Land Uses	Standard Single-Family, Single-Family Alternative, General Commercial, Limited Commercial, Office Building, and Multi-Family	Single-Family Alternative, Standard Single Family, Multi-Family, and Office Building	Multi-Family, General Commercial, and Heavy Industrial
Notable Locations	AIMS Urgent Care, Safeway, Starbucks, University Park, American River Commons, Rio Del Oro Sports Club	Rivercrest Apartments, College Garden Apartments, University River Village, Food Mart, Laguna Creek Sports Club	Comfort Inn & Suites Sacramento, Sacramento County Small Claims, Carol Miller Justice Center, Chevron
Major Cross-Streets Within Road Segment	Fair Oaks Boulevard, University Avenue, American River Drive, Swarthmore Drive/University Park Drive	None	College Town Drive, Folsom Boulevard
Median Types	Raised median	Raised median	Raised median
Existing Bicycle Facilities	Bike lane at the northbound (NB) approaches of Howe Avenue/American River Drive intersection and Howe Avenue/Swarthmore Drive/University Park Drive intersection	Bike lanes on northbound (NB) and southbound (SB) lanes along Howe Avenue Bridge from University Avenue to American River	Bike lanes northbound (NB) and southbound (SB) lanes from U.S. Route 50 overpass to U.S. Route 50 on-ramp
Sidewalks	Sidewalks present	No sidewalk along SB lane from American River Drive to Howe Avenue bridge/University Avenue overpass No sidewalk for NB and SB segments adjacent to University Park Dog Park Existing sidewalks lack buffers from travel lanes	No sidewalk along NB segment from U.S. Route 50 overpass to Folsom Boulevard Existing sidewalks adjacent to SB lanes lack buffers from travel lanes

Characteristic	North Segment (Figure 3)	Middle Segment (Figure 4)	South Segment (Figure 5)
Bus Service Routes and Shelter Locations	No bus route serves the North Segment. No bus shelters are present.	<p>The Middle Segment is served by Route 26. Bus shelters exist at the following locations:</p> <ul style="list-style-type: none"> • Howe Avenue & Swarthmore Drive (NB) • Howe Avenue & Swarthmore Drive (SB) 	No bus route serves the South Segment. No bus shelters are present.

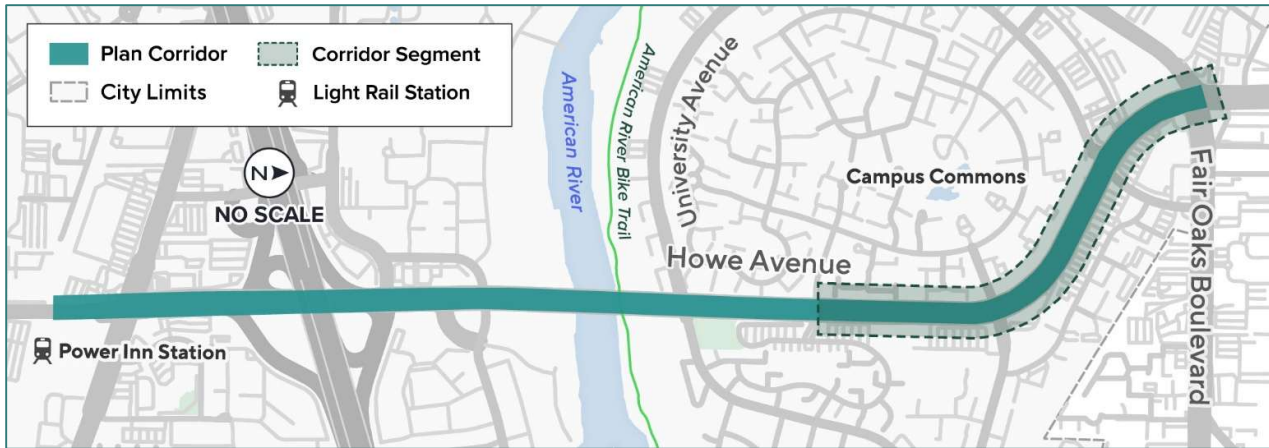


Figure 6. Howe Avenue North Segment Location Map



Figure 7. Site Photo of North Segment Roadway

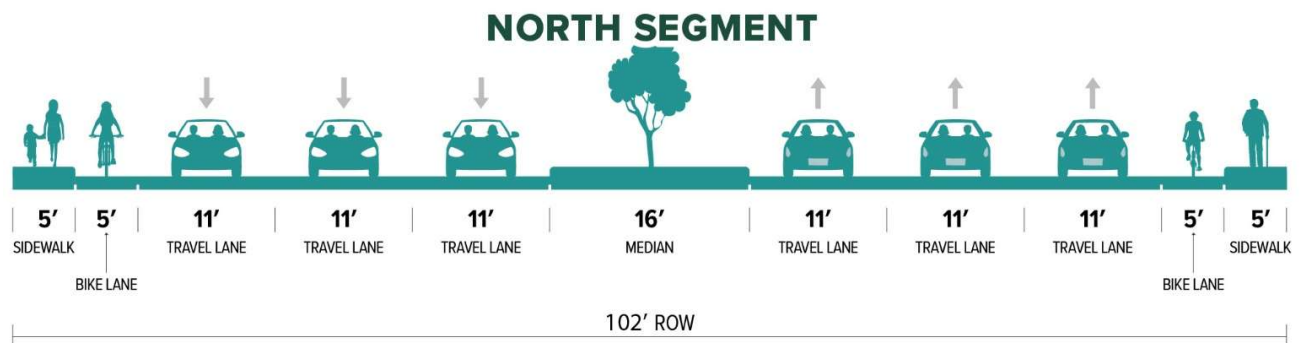


Figure 8. North Segment: Howe Avenue (Fair Oaks Boulevard to Swarthmore Drive/University Park Drive)

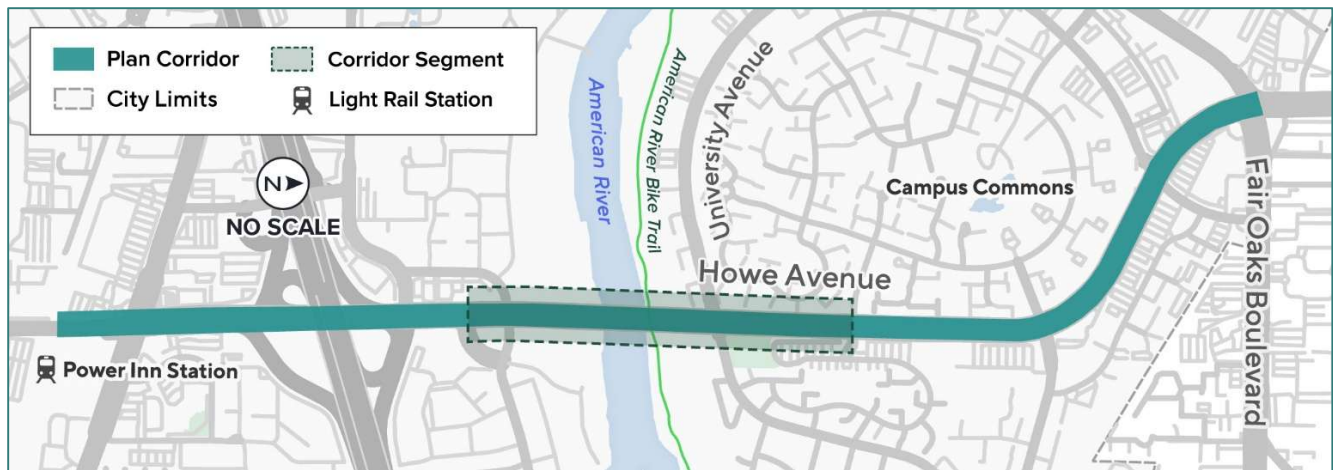


Figure 9. Howe Avenue Middle Segment Location



Figure 10. Site Photo of Middle Segment Operations

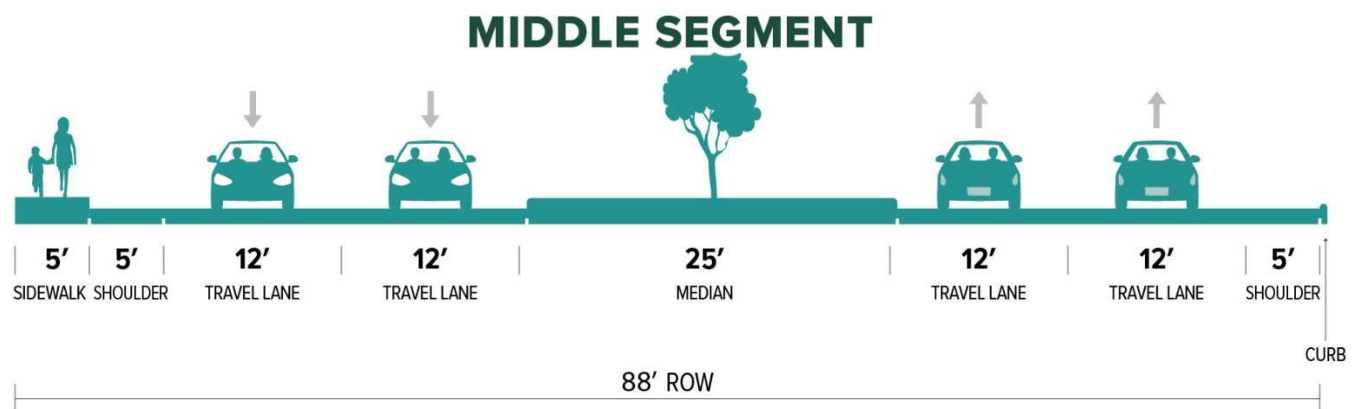


Figure 11. Middle Segment: Howe Avenue (Swarthmore Drive to La Riviera Access Road)

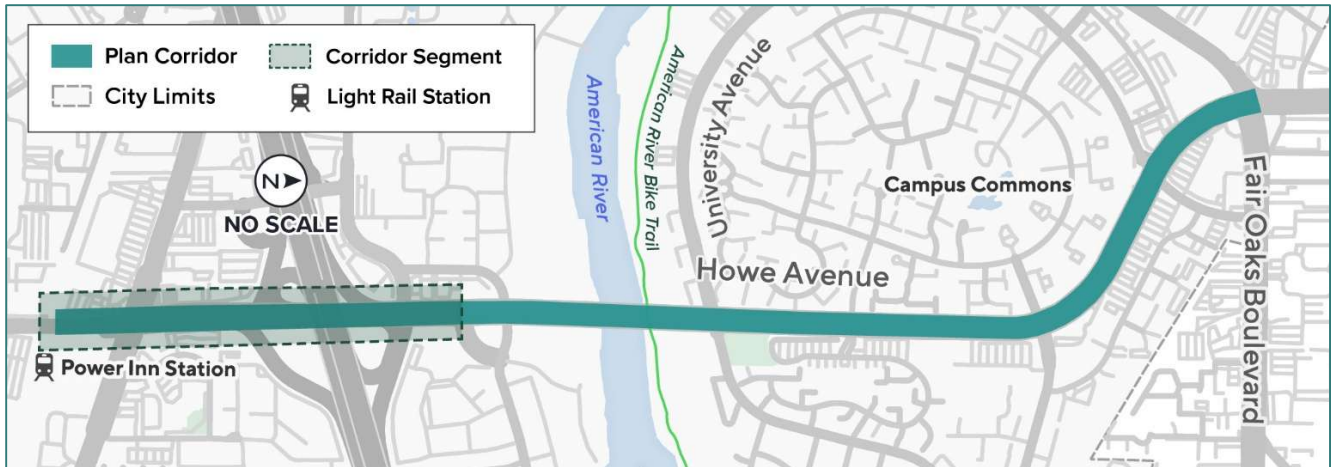


Figure 12. Howe Avenue South Segment Location

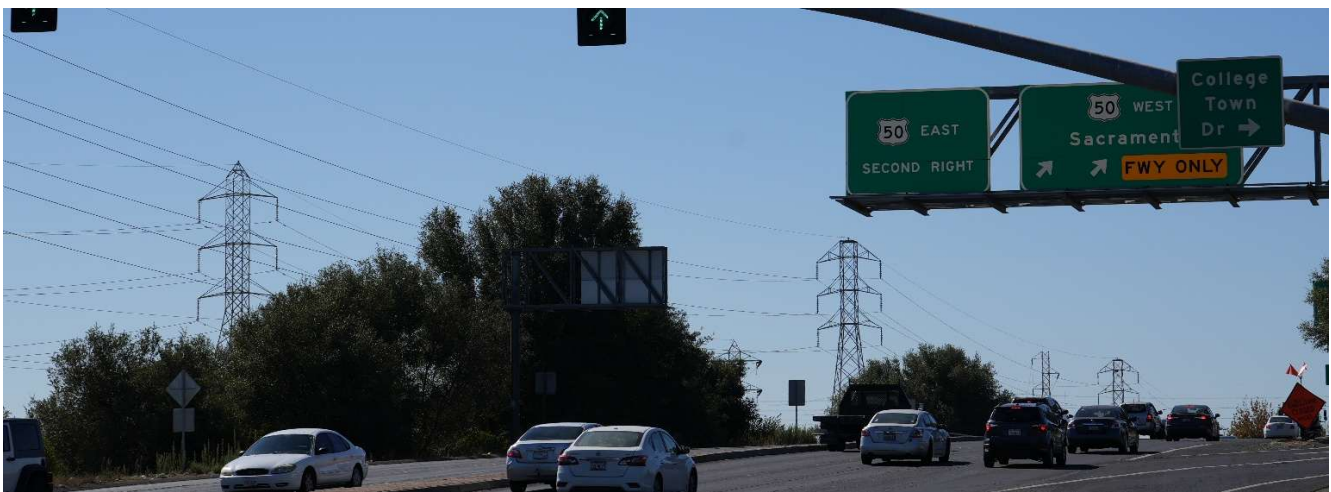


Figure 13. Site Photo of South Segment Operations

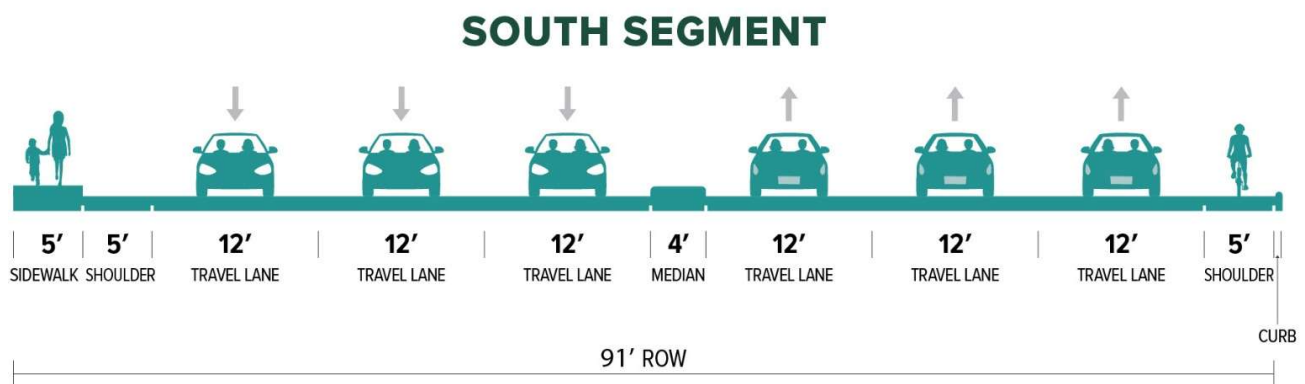


Figure 14. South Segment: Howe Avenue - La Riviera Access Road to Power Inn Station

Existing Conditions Multimodal Analysis

This section provides an analysis of existing conditions along Howe Avenue, focusing on multimodal transportation, traffic operations, safety, and congestion metrics. It presents data on traffic volumes, crash factors, level of traffic stress, transit ridership, and travel time reliability for the study corridor.

Traffic Volumes at Study Intersections

As part of the traffic operations analysis, three out of seven intersections on the corridor were evaluated based on where the City has data collection hardware installed:

- Howe Avenue at Fair Oaks Boulevard
- Howe Avenue at University Avenue
- Howe Avenue at Folsom Boulevard

Volumes were collected during weekday morning (7:00 to 9:00 a.m.) and evening (4:00 to 6:00 p.m.) peak hours from October 14 to October 18, 2024. Peak hours were observed at 7:45 a.m. and 4:30 p.m. for the Fair Oaks Boulevard intersection, and at 8:00 a.m. and 4:15 p.m. for the University Avenue and Folsom Boulevard intersections. Existing peak hour traffic volumes and form of traffic control are illustrated in **Figure 15**. Traffic volumes are in **Appendix A**.

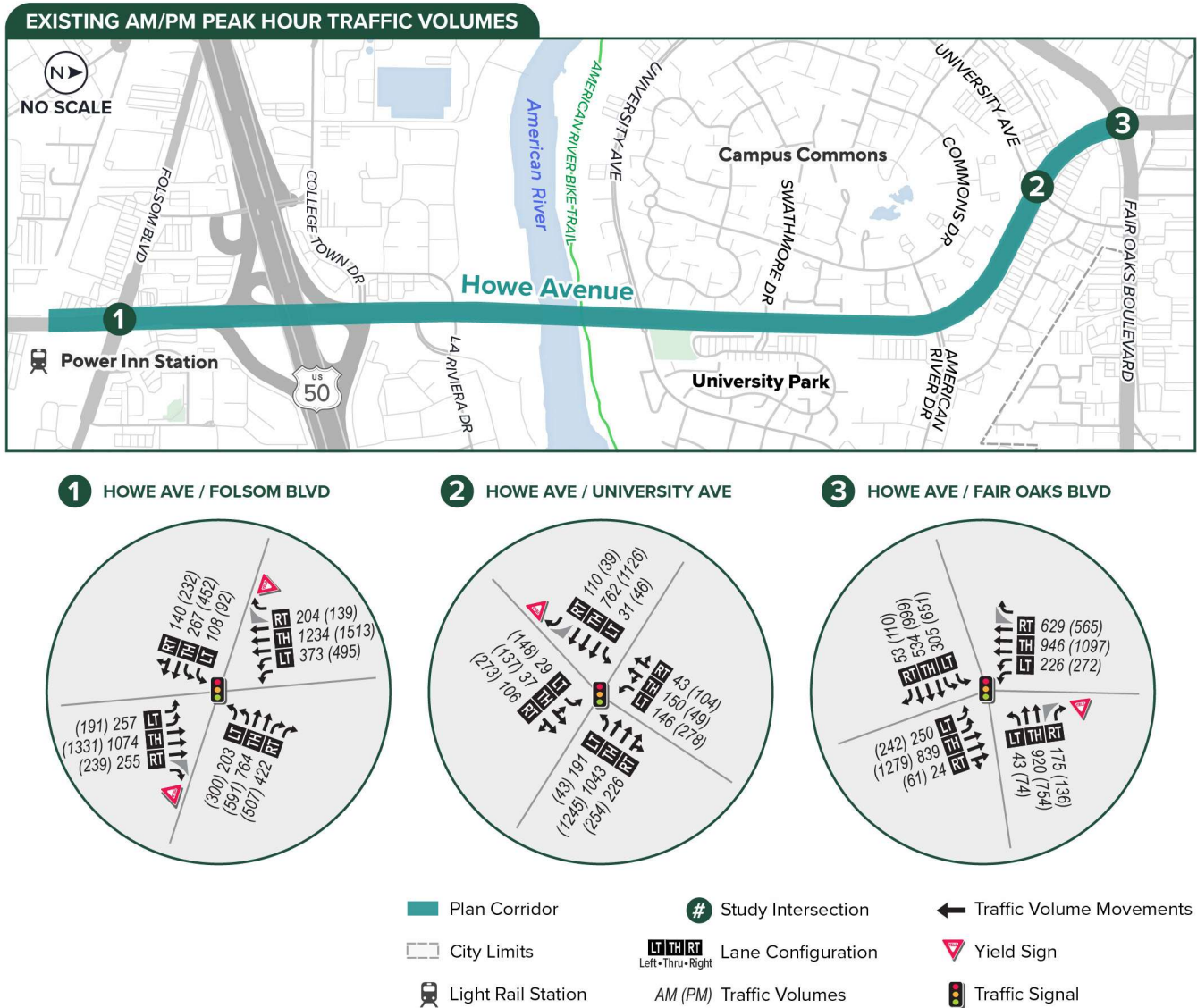


Figure 15: Existing Peak Hour Traffic Volumes and Form of Traffic Control

Transit Data Summary

Weekday passenger boarding data were provided by SacRT for the four bus stops along or near Howe Avenue and at the Power Inn LRT Station. The data covers the period from January to August 2024. SacRT Bus Route 26 operates along Howe Avenue with 30-minute headways, shifting to 60-minute headways after 7 p.m.

Overall Ridership Trends

Figure 16 shows the average daily transit ridership trends across all stops by month from January through August. Ridership declined from 438 in January to 251 in February, then

stabilized between March and June, fluctuating between 275 and 291 riders. In the later months, ridership increased, reaching 312 in July and 340 in August.

Ridership by Stop

Figure 17 shows average weekday ridership by individual stops along Howe Avenue:

- Power Inn Station (WB): 160 passengers (highest ridership).
- Power Inn Station (EB): 119 passengers.
- College Towne Dr & La Riviera: 20 passengers.
- American River Dr & La Riviera: 6 passengers.
- Howe Ave & Swarthmore Dr/Northrop Dr: 2 passengers.
- Howe Ave & Swarthmore Dr: 1 passenger.

The data indicates that ridership is heavily concentrated at the Power Inn Station stops, a key transfer point in the transit network, which together account for the majority of weekday passenger activity. Transit data are provided in **Appendix B**.

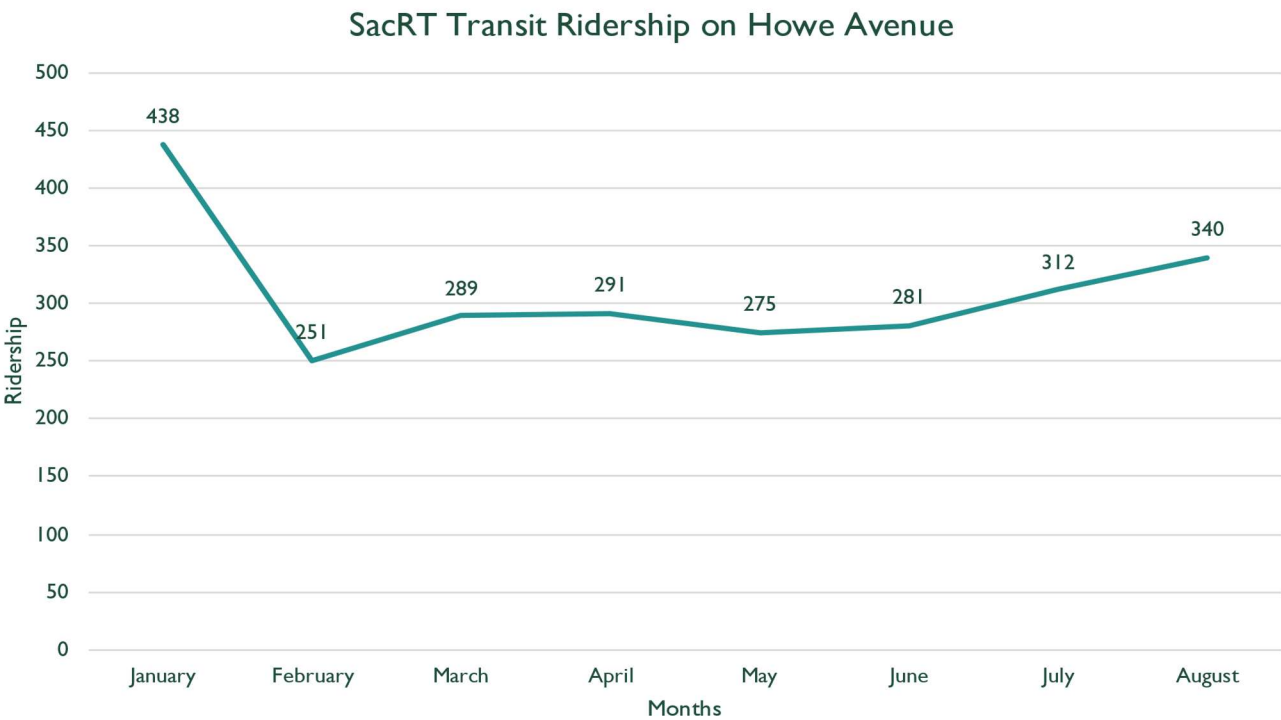


Figure 16. Average Daily Transit Ridership for All Stops on Howe Avenue By Month (Source: SacRT Stop Ridership Data)

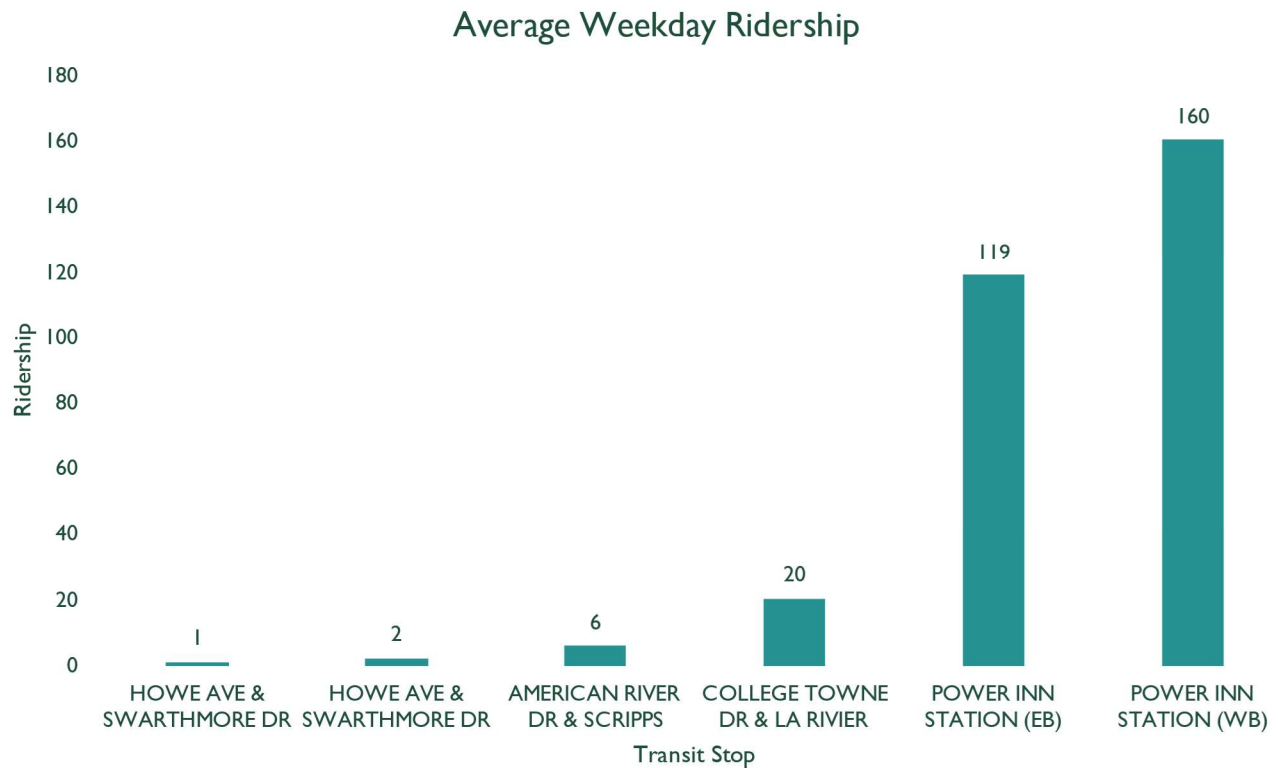


Figure 17. Average Weekday Ridership by Stop on Howe Avenue (Source: SacRT Stop Ridership Data)

Level of Traffic Stress/All Ages and Abilities Walking and Biking Analysis

The following sections describe the methodology used to evaluate conditions along the corridor for non-motorized road users and the results of this analysis.

Bicycle LTS

Bicycle LTS analysis was calculated using the methodologies described in the *Mineta Transportation Institutes Report 11-19 Low Stress Bicycling and Network Connectivity* (2012). Bicycle LTS scores measure the stress level of a roadway segment based on criteria such as:

- Street width (number of lanes);
- Speed limit or prevailing speed;
- The presence and width of bike lanes;
- Signals; and
- The presence and width of parking lanes (if applicable).

Bicycle LTS scores range from one to four, with one representing the most comfortable conditions for riders and four representing the least comfortable. An LTS score of one indicates that the roadway stress level is tolerable for most riders, including children and less experienced people bicycling. Conversely, an LTS score of four signifies conditions better suited to highly skilled people bicycling, as shown in **Figure 18**. The criteria used to determine the Bicycle LTS along the corridor are summarized in **Table 2**.

Applying this methodology, Howe Avenue receives an **LTS score of four** throughout the study limits, primarily due to street width and the existing speed limits (**Figure 19**). This assessment is consistent with the existing roadway configuration, which provides a Class II bike facility rather than protected bicycle facilities.

Existing conditions on the corridor, including posted speed limits up to 50 mph and traffic volumes up to 59,000 vehicles per day, create a high-stress environment for people biking on Howe Avenue. The lack of dedicated, protected infrastructure is consistent with the high LTS score.

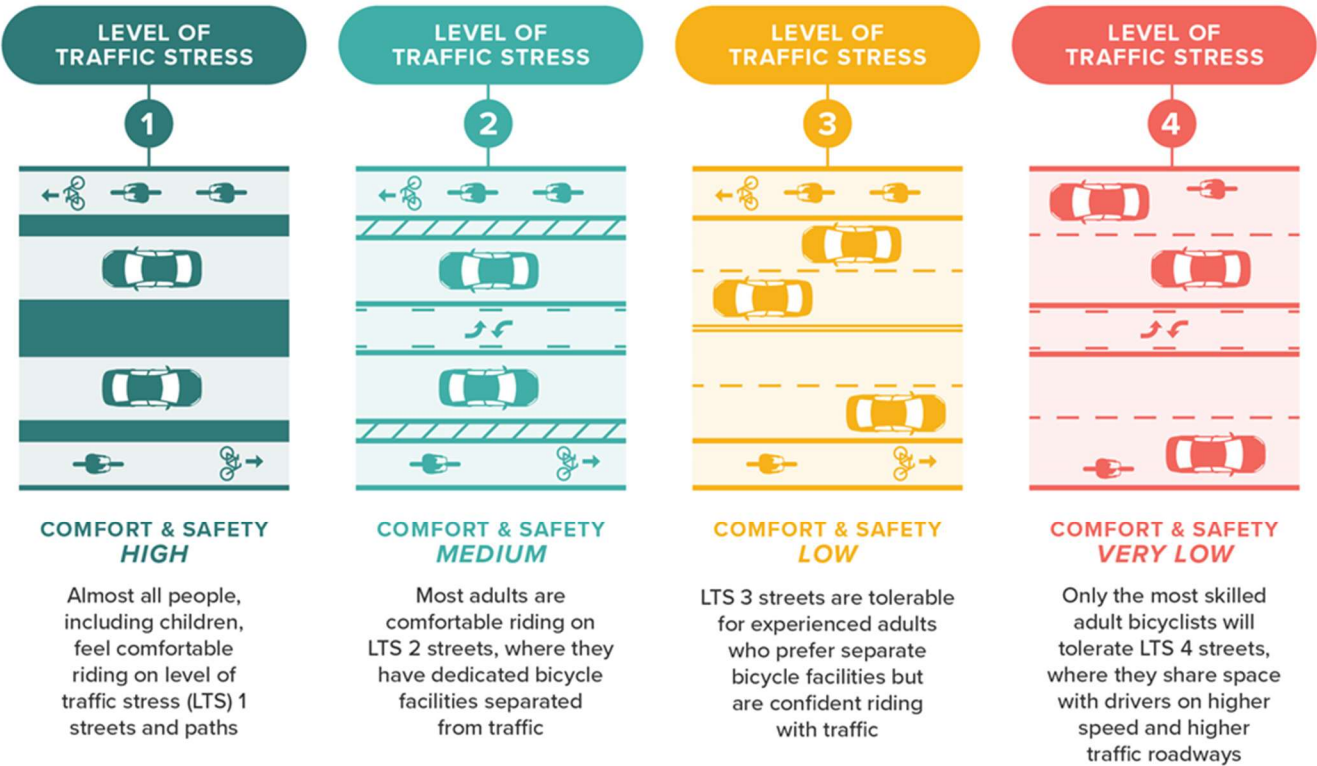


Figure 18. Bike Level of Traffic Stress Scores

Table 2. Bicycle Level of Traffic Stress Criteria

SEGMENT	POSTED (OBSERVED) SPEED (MPH)	BIKE LANE	PARKING LANE	# OF TRAVEL LANES	LTS SCORE
<u>NORTH SEGMENT</u>					
FAIR OAKS BOULEVARD TO SWARTHMORE DRIVE/UNIVERSITY PARK DRIVE	40 (43.6): Fair Oaks Blvd to American River Dr 50 (52.4): American River Dr to Swarthmore Dr/University Park Dr	Yes: University Ave to American River Dr (NB) No: American River Dr to Swarthmore Dr	No	3	4
<u>MIDDLE SEGMENT</u>					
SWARTHMORE DRIVE/UNIVERSITY PARK DRIVE TO LA RIVIERA ACCESS ROAD	50 (52.4)	No	No	3	4
<u>SOUTH SEGMENT</u>					
LA RIVIERA ACCESS ROAD TO POWER INN STATION	40 (41.5)	No	No	3	4

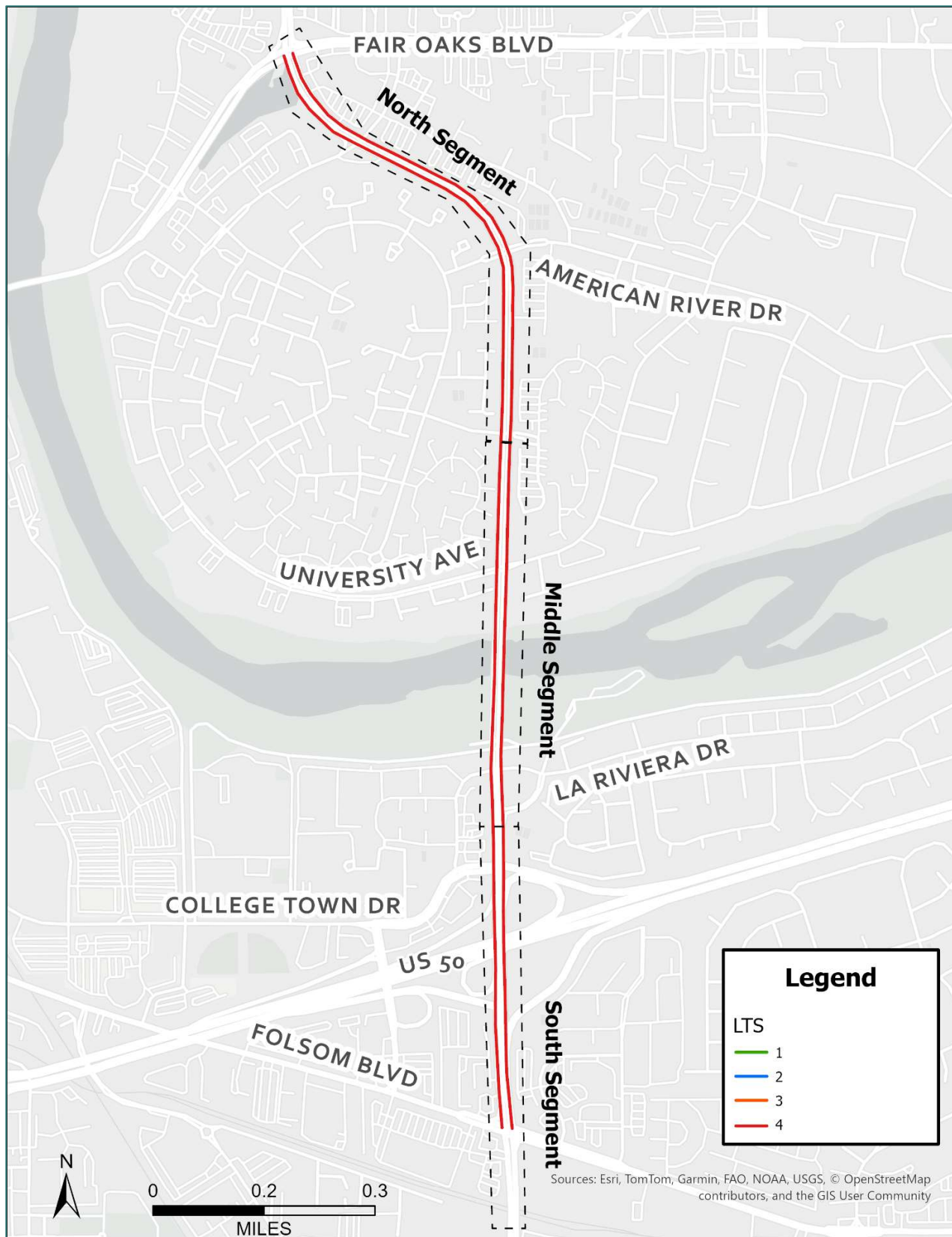


Figure 19. Bicycle Segment LTS

Walking LTS

The walking level of traffic stress (LTS) analysis was conducted using the *Oregon Department of Transportation (ODOT) Level of Traffic Stress Analysis Procedures (2020)*. Similar to the bicycle LTS methodology, walking LTS also uses several criteria to develop a LTS score of one to four based on factors such as the presence of sidewalks, crosswalks, median refuges, traffic volume, and posted speed limits as shown in **Figure 20**.

Similar to bicycling LTS results, Howe Avenue receives an LTS score of 4 for all segments. uncomfortable and stressful for most people walking or rolling as illustrated in **Figure 21**.

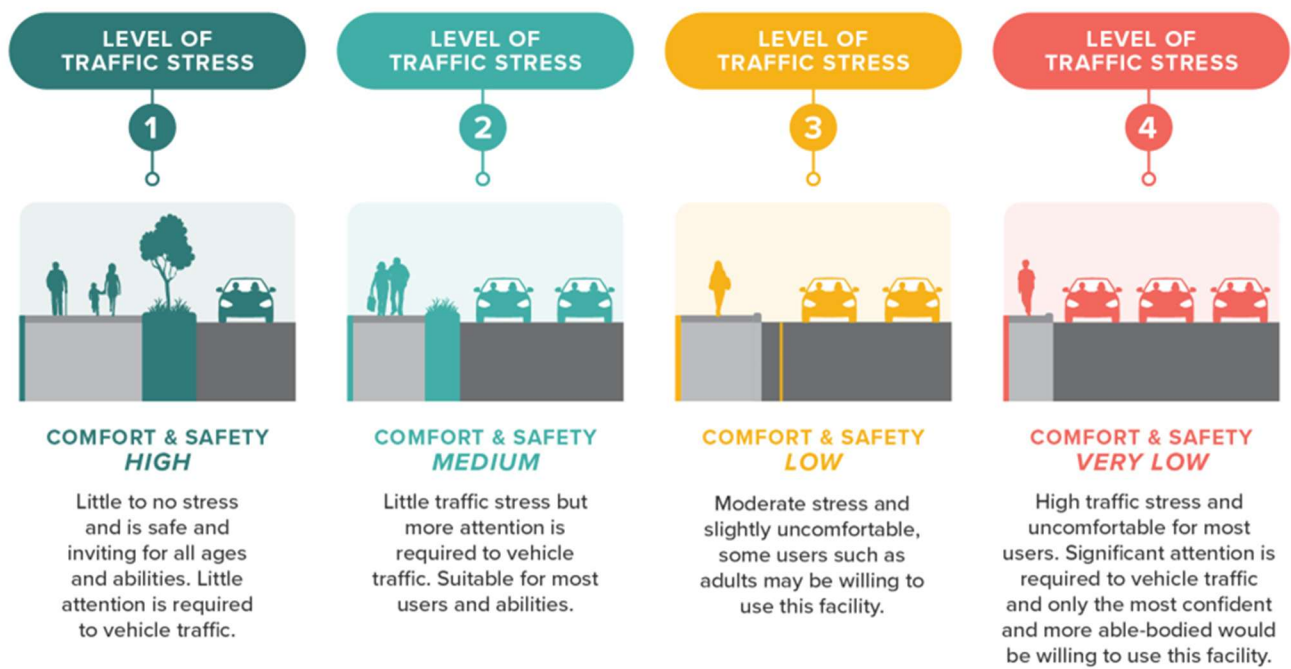


Figure 20. Walking Level of Traffic Stress

Table 3. Walking Level of Traffic Stress Criteria

SEGMENT	STREET WIDTH ¹³	BUFFER TYPE	SIDEWALK WIDTH	SIDEWALK CONDITION	SPEED LIMIT ¹⁴	LTS SCORE
<u>NORTH SEGMENT:</u>						
FAIR OAKS BOULEVARD TO SWARTHMORE DRIVE/ UNIVERSITY PARK DRIVE	3	None	5 feet No sidewalk is present along southbound travel lanes from American River Drive to Swarthmore Drive/University Park Drive.	Good, no obvious cracks in concrete or uneven pavement.	40 mph	4
<u>MIDDLE SEGMENT:</u>						
SWARTHMORE DRIVE/ UNIVERSITY PARK DRIVE TO LA RIVIERA DRIVE OVERPASS	2	None	5 feet No sidewalks exist along the southbound travel lanes from Swarthmore Drive to University Avenue overpass, University overpass to Howe Avenue bridge. No sidewalks exist along the northbound travel lanes from Howe Avenue bridge to La Riviera Drive overpass.	Fair	50 mph	4
<u>SOUTH SEGMENT:</u>						
LA RIVIERA DRIVE OVERPASS TO POWER INN LRT STATION	3	None	5 feet	Good, no obvious cracks in concrete or uneven pavement.	40 mph	4

¹³ Lanes per direction

¹⁴ Posted speed limit or prevailing speed

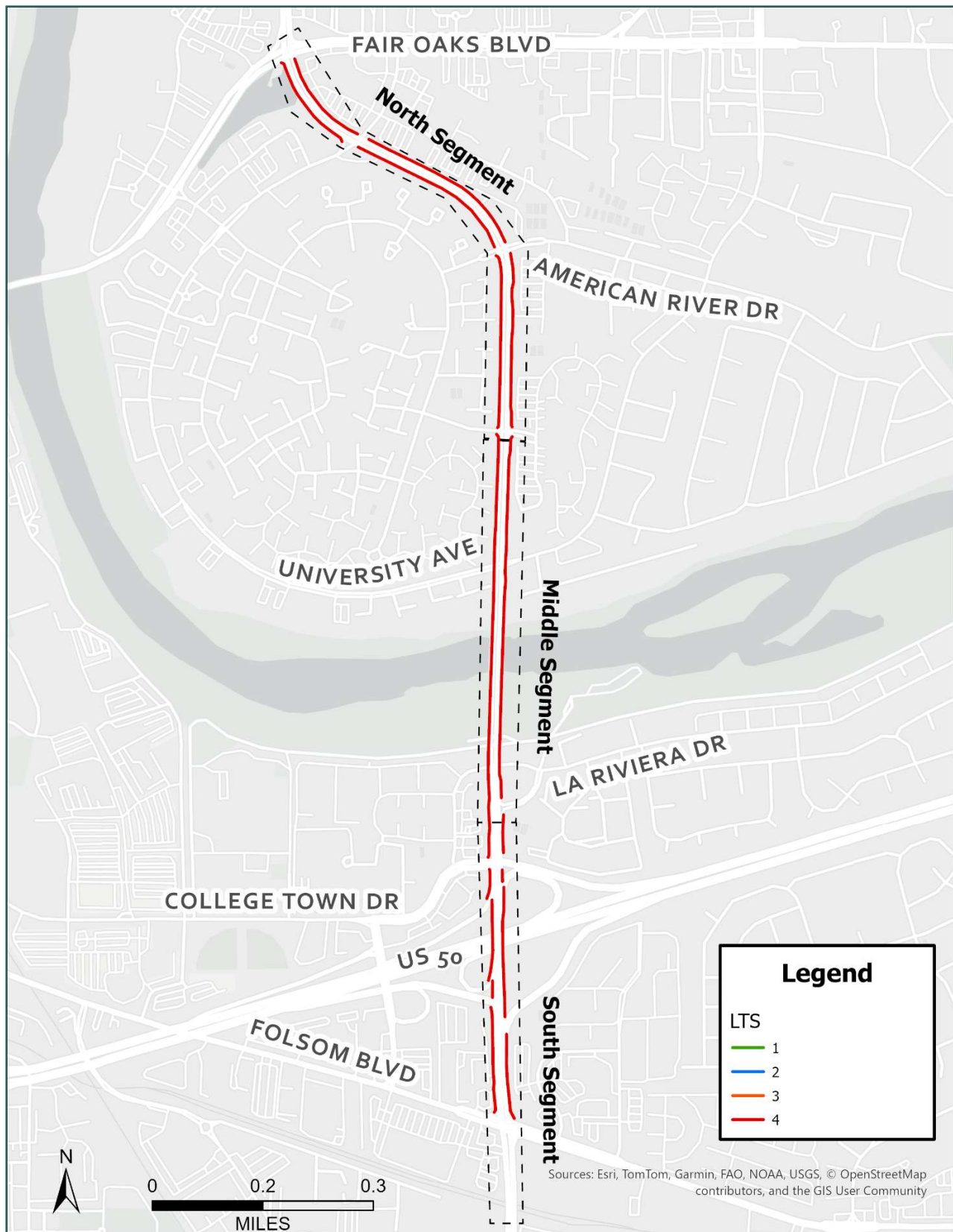


Figure 21. Walking Segment LTS

Crash Analysis Summary

DKS collected injury crash data obtained from Transportation Injury Mapping System (TIMS) and Statewide Integrated Traffic Records System (SWITRS) within a six-year period (2018 to 2023) to conduct a safety analysis within the corridor. The data consisted of injury crashes on Howe Avenue from Fair Oaks Boulevard to Folsom Boulevard. **Table 4** presents the annual crash counts and severity levels. **Figure 22** provides a visual representation of all crashes within the corridor, while **Figure 23** focuses specifically on crashes where a person is killed or severely injured (KSI).

During this period, the corridor experienced 201 crashes, with 18 crashes resulting in fatalities or serious injuries. The primary contributing factors identified were unsafe speed, issues related to traffic signals, and improper turning maneuvers.

Table 5 summarizes crash data by segment, revealing that the North Segment experienced the highest number of total crashes (77, 38%) and KSI crashes (nine, 50%). The South Segment followed with 70 crashes (35%) and six KSI crashes (33%). The Middle Segment had the fewest crashes, with 54 crashes (27%) and three KSI crashes (17%). Notably, no crashes involving people walking or biking occurred in the Middle Segment.

Across all segments, bicycle-involved crashes totaled two, with one crash each in the North and South Segments. There were three crashes involving people walking, including two in the North Segment and one in the South Segment. The two crashes involving someone biking and one crash involving someone walking occurred at major intersections - American River Drive, Folsom Boulevard, and College Town Drive. Two of the crashes were a result of failure to yield right-of-way and one by an unsafe turn. One bicycle crash resulted in serious injuries, while the remaining collisions involving someone walking or biking resulted in minor injuries. One of the crashes involving someone walking involved a hit-and-run driver who struck two people. All crashes happened during busier evening hours between 6:30 to 9:00 p.m.

Table 4: Crashes by Severity

SEVERITY	2018	2019	2020	2021	2022	2023	TOTAL
FATAL INJURY	1	1	0	0	0	0	2
SEVERE INJURY	3	2	3	4	2	2	16
MINOR INJURY	9	1	6	14	6	16	52
POSSIBLE INJURY	20	22	14	25	23	27	131
TOTAL	33	26	23	43	31	45	201

Source: Transportation Injury Mapping System (TIMS), Safe Transportation Research and Education Center, University of California, Berkeley.

Table 5: Crashes by Segment

CRASH SEGMENT	CRASHES	KSI CRASHES	CRASHES INVOLVING PEOPLE BIKING	CRASHES INVOLVING PEOPLE WALKING
NORTH SEGMENT	77	9	1	2
MIDDLE SEGMENT	54	3	0	0
SOUTH SEGMENT	70	6	1	1
TOTAL	201	18	2	3

Source: Transportation Injury Mapping System (TIMS), Safe Transportation Research and Education Center, University of California, Berkeley.

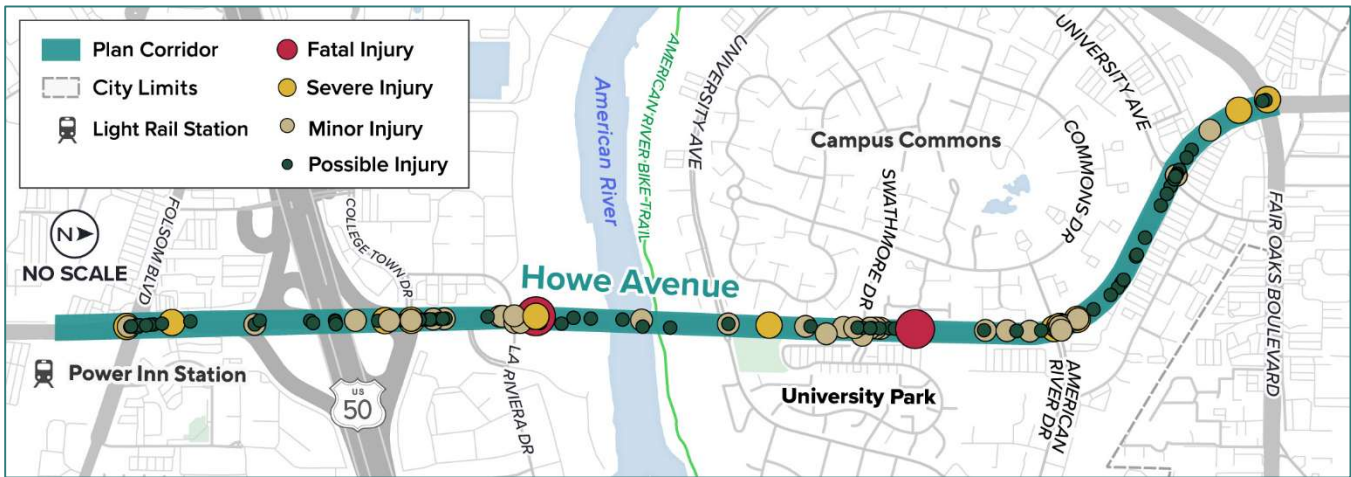


Figure 22: Howe Avenue Crash Map (ALL CRASHES) Source: Transportation Injury Mapping System (TIMS)

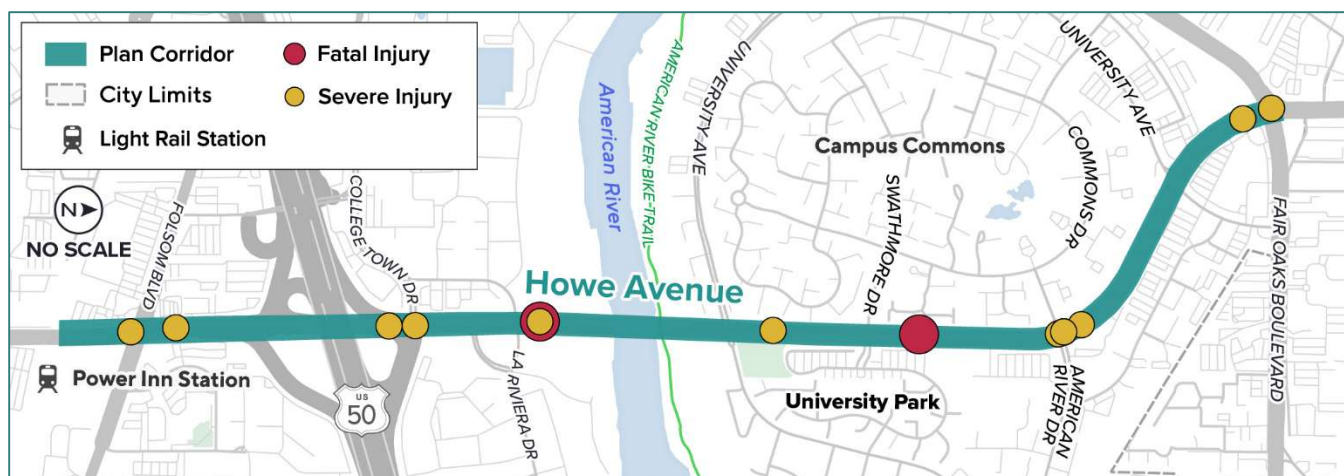


Figure 23: Howe Avenue Crash Map (KSI Crashes) Source: Transportation Injury Mapping System (TIMS)

Crash Type Summary

Figure 24 illustrates the distribution of crashes by type¹⁵ during the analysis period.

Among the 201 total crashes, rear-end collisions were the most common, accounting for 101 crashes (50%). Broadside crashes followed as the second most frequent type, with 46 crashes (22%). Both crash types are prevalent at intersections, where 151 crashes (75% of the total) occurred.

Rear-end crashes were particularly concentrated near the intersection of Howe Avenue and American River Drive. Additionally, several "hit object" crashes that resulted in fatalities or serious injuries (KSI crashes) occurred in the same area.

Of the 101 rear-end crashes, 51% involved vehicles traveling northbound on Howe Avenue, approaching major intersections¹⁶. The remaining rear-end crashes were divided between southbound vehicles and those entering from side streets.

¹⁵ Note: One of the crashes identified as the type "Vehicle/Pedestrian" was not marked as involving a pedestrian, resulting in the disagreement between Table 4 and Figure 17. Lacking a way to determine which is correct, the data is presented as provided.

¹⁶ Analysis of 89 rear-end crashes along Howe Avenue shows that 45 (51%) occurred in the northbound direction, 35 (39%) in the southbound direction, and 9 (10%) were eastbound on intersecting streets.

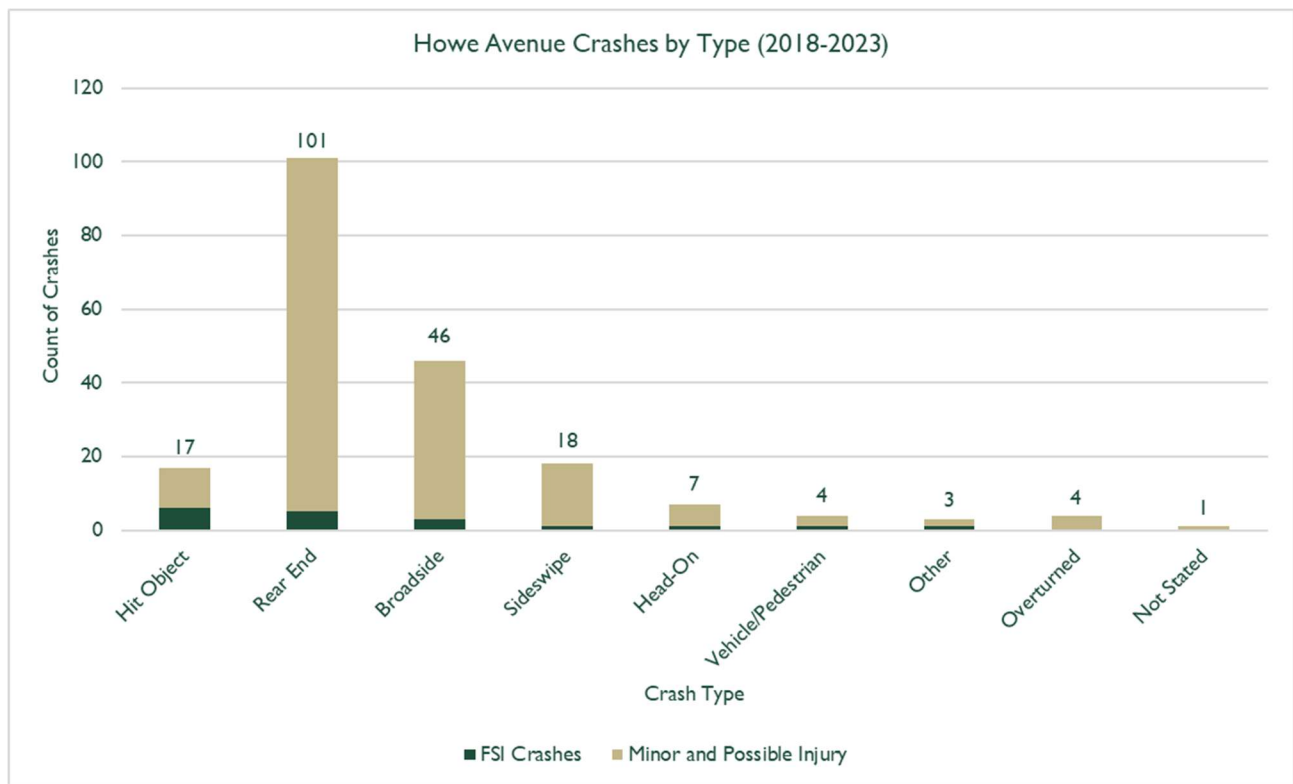


Figure 24: Howe Avenue Crashes by Type (Source: Transportation Injury Mapping System (TIMS))

Primary Crash Factor Summary

Figure 25 categorizes crashes by primary crash factor (PCF) based on reporting officer assessments. Among the 201 crashes analyzed, 104 (52%) were attributed to unsafe speeds¹⁷, making it the leading cause of crashes on the corridor. Violations related to traffic signals and signs¹⁸ were the next most frequent PCF, contributing to 29 crashes (14%), followed by improper turning, which accounted for 28 crashes (14%).

Of the 18 KSI crashes, seven (39%) involved unsafe speeds, while four (22%) were related to driving under the influence. None of the DUI-related crashes involved people walking or biking but one crash resulted in a non-KSI crash involving a person on a motorcycle.

¹⁷ In California Highway Patrol (CHP) crash reports, "unsafe speed" typically means driving at a speed that was dangerous for the prevailing conditions, even if it was at or below the posted speed limit.

¹⁸ In CHP crash reports, "traffic signals and signs" as a crash cause typically indicates that a violation or disregard of traffic control devices contributed to the collision.

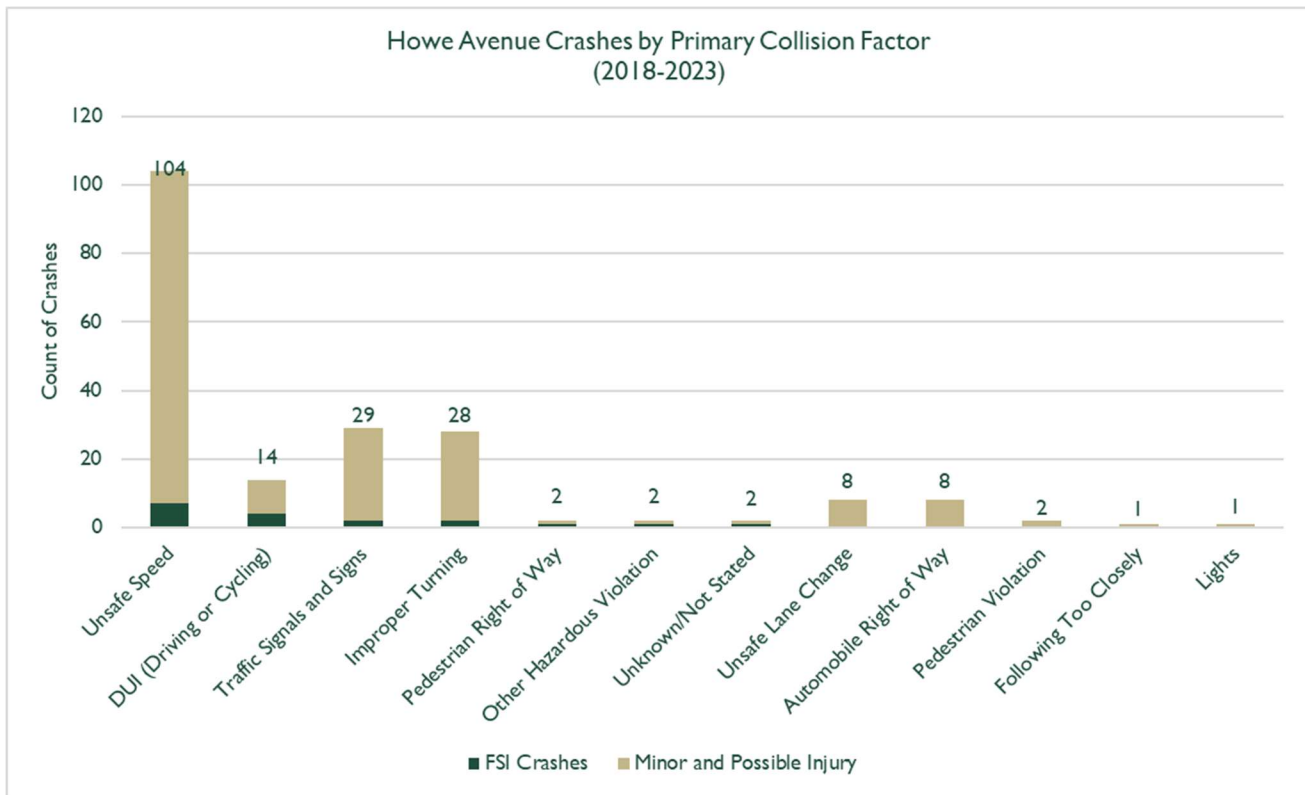


Figure 25: Howe Avenue Crashes by Primary Crash Factor Howe Avenue Crashes by Type (Source: Transportation Injury Mapping System (TIMS))

Crash Trends by Location

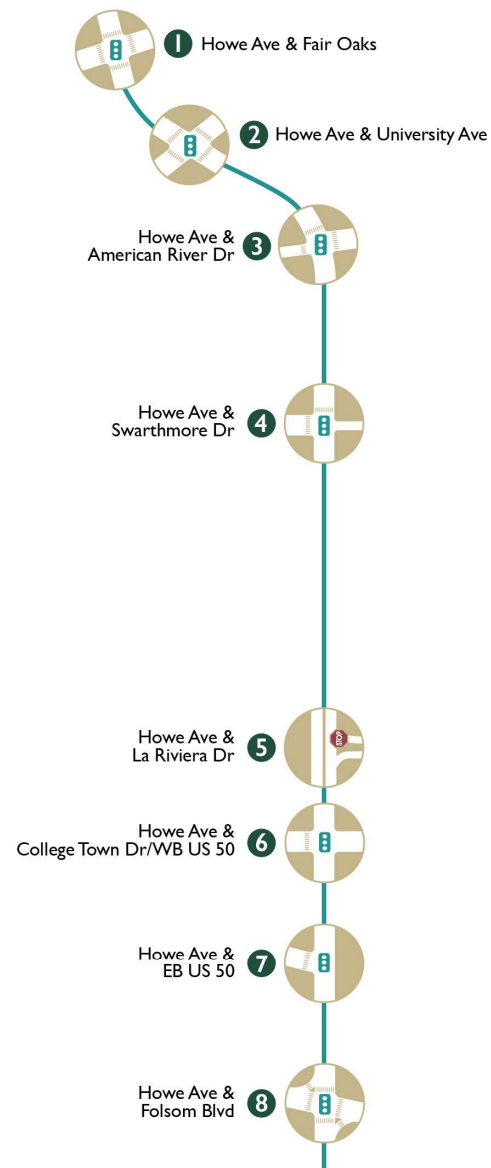
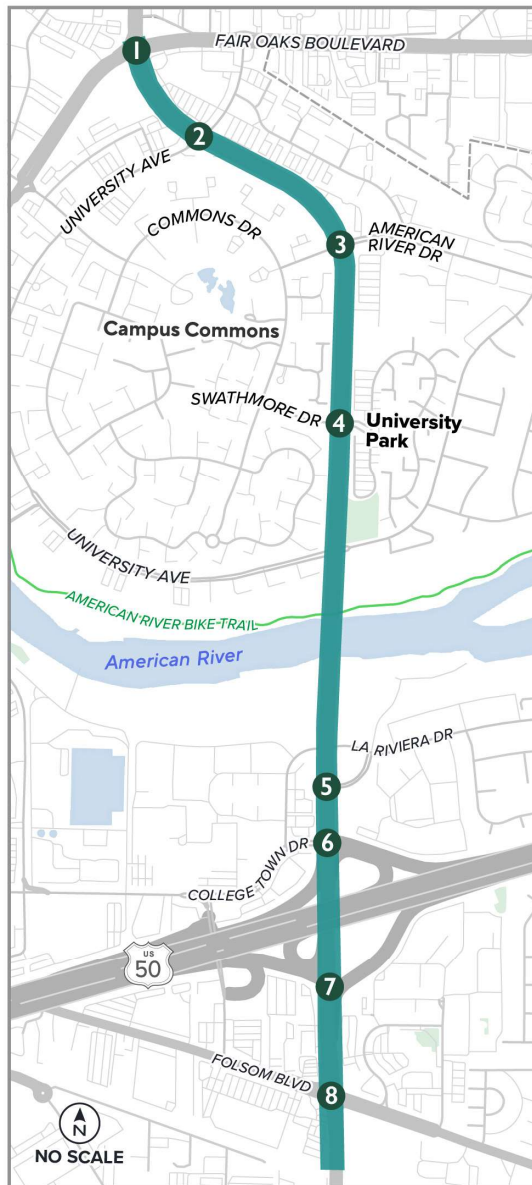
The most frequently occurring primary collision factors and crash types reported for crashes along the study corridor, along with the associated locations, are provided in **Figure 26**.

Rear-end collisions were the most common crash type during the study period, accounting for over 50% of all reported incidents along the Howe Avenue corridor. Broadside collisions ranked second in frequency. Signal and sign violations were among the most frequently cited contributing factors, particularly at intersections such as Howe Avenue at University Avenue, American River Drive, and Folsom Boulevard. The locations with the highest collision frequencies and their crash characteristics are summarized below:

- **Howe Avenue & American River Drive:** This intersection experienced the highest number of crashes from 2018 to 2023 with 37 crashes. Broadside collisions were the most frequent, with traffic signal and sign violations identified as the leading primary collision factor.

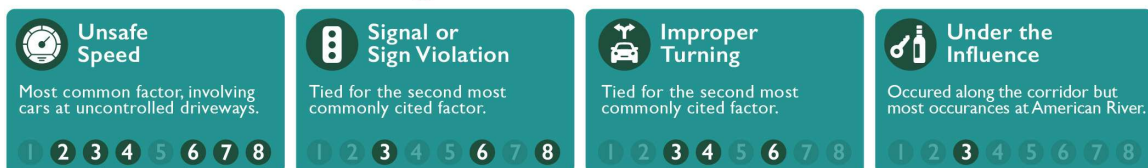
- Howe Avenue & College Town Drive: This location recorded the second-highest number of crashes (29), primarily broadside and rear-end collisions associated with unsafe speed.
- Howe Avenue & Folsom Boulevard: A total of 22 crashes were reported, primarily rear-end and broadside collisions related to unsafe speed and improper turning, respectively.
- Howe Avenue and Swarthmore Drive: 17 crashes reported at this intersection, also primarily rear-end collisions related to unsafe speed.

Although unsafe speed was the most frequently identified primary collision factor, these crashes occurred throughout the corridor rather than being concentrated on specific segments. Crash data from 2018 to 2023 indicates that collisions of various types and contributing factors were generally dispersed along the corridor¹⁹.



CRASH CAUSES

Highlighted intersections had more than 2 crashes of the associated type or primary cause.



CRASH TYPES

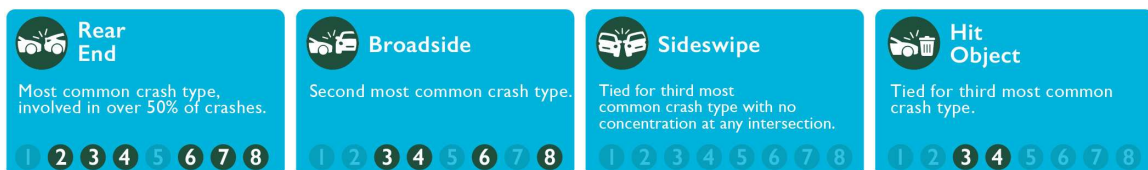


Figure 26: Crash Trends by Location

Traffic Operations Analysis

The following sections describe the methodology used to analyze and evaluate the traffic conditions at the study intersections and the results of this analysis.

Analysis Methodology

The study intersections were analyzed using Synchro 12, a traffic analysis software. A model of existing conditions was developed using the existing roadway geometry, traffic signal timing plans, and intersection turn movement volumes for the weekday morning and evening peak periods. In accordance with city guidelines, the peak hour factor (PHF) was set to 1.0.

Intersection geometry was determined through aerial imagery and field assessments. The most recent signal timing information was provided by the City of Sacramento. Signal Timing Worksheets are provided in **Appendix C**.

Key performance metrics for this analysis include average vehicle delay, intersection Level of Service (LOS)²⁰, and 95th percentile queue.

The delay and LOS analysis follows the methodology outlined in the Highway Capacity Manual (HCM) methodology published by the Transportation Research Board (TRB). This methodology assigns LOS grades (A to F) based on average vehicle control delay, where LOS A represents free-flow conditions and LOS F indicates severe congestion. **Table 6** documents the LOS criteria for signalized intersections.

The 95th percentile queueing reported by Synchro refers to the queue length (in vehicles) that has only a 5% chance of being exceeded during the analysis period. Most drivers will typically experience shorter queues than these estimates.

Queue lengths are analyzed to assess potential safety impacts, including blocked side street or driveway access (a moderate concern) and queue spill-back into upstream intersections (a significant concern). Queue overflows are calculated as the number of vehicles exceeding available storage, assuming 25 feet per vehicle and rounding up.

²⁰ A Level of Service (LOS) analysis refers to the quantifiable assessment of traffic under various scenarios.

Table 6: Level of Service Criteria Definitions

Level of Service	Description	signalized Intersection (Delay in Seconds)
A	Operations with very low delay occurring with favorable progression and/or short cycle lengths.	≤10.0
B	Operations with very low delay occurring with good progression and/or short cycle lengths.	>10.0 to 20.0
C	Operations with very average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	>20.0 to 35.0
D	Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, and high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable.	>35.0 to 55.0
E	Operations with high delay values indicating poor progression, long cycle lengths, and V/C ratios. Individual cycle failures are frequent occurrences.	>55.0 to 80.0
F	Operations with delays unacceptable to most drivers occurring due to over-saturation, poor progression, or very long cycle lengths.	>80.0

Source: *Highway Capacity Manual, 7th Edition*

Analysis Results

Existing Vehicular Level of Service

The three study intersections—Fair Oaks Boulevard, University Avenue, and Folsom Boulevard—were analyzed for average control delay and Level of Service (LOS) during the a.m. and p.m. peak hours based on available traffic volume data. The observed delays ranged from 29 to 45 seconds per vehicle, with all intersections operating at LOS D or better. LOS D represents the lowest level of service observed, while the others performed at LOS C or higher.

Table 7 summarizes the existing peak-hour intersection performance, including control delay and LOS. Supporting Synchro reports—covering lane configurations, traffic volumes, signal timings, queue lengths, and delay/LOS analyses—are provided in **Appendix D**.

Table 7: Existing Conditions Operational Analysis Results

INTERSECTION	A.M. PEAK HOUR		P.M. PEAK HOUR	
	DELAY (SECONDS)	LOS	DELAY (SECONDS)	LOS
1. HOWE AVENUE / FAIR OAKS BOULEVARD*	36.2	D	44.4	D
2. HOWE AVENUE / UNIVERSITY AVENUE	36.2	D	35.6	D
3. HOWE AVENUE / FOLSOM BOULEVARD	29.6	C	36.7	D

*Delay and LOS calculated using HCM 2000 methodology for this intersection, because of complex signal phasing not included in the HCM 7th Edition methodology.

Source: DKS Associates, December 2024.

95th Percentile Queueing

Table 8 provides an overview of the 95th percentile queueing results at all study intersections compared to available storage lengths. Deficiencies are summarized as follows:

- **Howe Avenue and Fair Oaks Boulevard:** The southbound right-turn queue exceeds available storage length (270 ft) during both periods.
- **Howe Avenue and University Avenue:** Queues for several movements exceed available storage lengths during both peak hours:
 - **A.M. Peak:** The northbound left turn queue exceeds the available storage (230 ft)
 - **P.M. Peak:** The southbound left turn queue does not exceed available storage length, however, analysis indicates that southbound demand is constrained by the upstream signal (at Fair Oaks Boulevard). If future changes to signal timing allowed more traffic through Fair Oaks, queues at University Avenue would be longer. Eastbound and westbound left-turn movements exceed available storage lengths in the p.m. peak, with the eastbound queue at 175 feet (exceeding 90 ft available storage) and the westbound queue at 190 feet (exceeding the 140 ft available storage).
- **Howe Avenue/Power Inn Road and Folsom Boulevard:** The northbound left queue in the a.m. peak exceeds available storage length (155 ft).

Table 8: 95TH Percentile Queuing Results at Study Intersections

INTERSECTION	TURNING MOVEMENT	STORAGE (FT)	95TH PCTLE QUEUE (FT)	
			A.M. PEAK HOUR	P.M. PEAK HOUR
1. HOWE AVENUE / FAIR OAKS BOULEVARD	NBL	260	150	155
	SBL	205	125	160
	EBL	530	165	325
	WBL	300	70	110
	SBR	270	525	280
2. HOWE AVENUE / UNIVERSITY AVENUE	NBL	230	280(#)	75
	SBL	100	45(m)	65(m)
	EBL	90	45	175
	WBL	140	135	190
3. HOWE AVENUE / FOLSOM BOULEVARD	NBL	155	165	135
	SBL	720	215	300
	EBL	230	80	75
	WBL	225	135	200

^a**BOLD** represents 95th percentile queueing above the available storage length.

(#) 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

(m) Volume for 95th percentile queue is metered by upstream signal.

Values rounded up to the nearest multiple of five.

Source: DKS Associates, December 2024.

Travel Time Reliability and Congestion

Traffic operations along a corridor are typically evaluated using two key metrics: **congestion** and **travel time reliability**

Congestion refers to significantly slower travel times during peak periods compared to free-flow or ideal travel conditions. **Travel time reliability** measures the consistency of travel times, reflecting how predictable a trip's duration is when taken at the same time each day.

Common factors that contribute to unreliable travel times include:

- Normal fluctuations in travel demand
- Physical bottlenecks
- Special events
- Traffic crashes
- Inclement weather
- Traffic control devices
- Work or construction activities

Measuring Congestion and Travel Time Reliability

Congestion is measured using the **Travel Time Index (TTI)**, which is calculated as the ratio of a corridor's travel time at a specific time of day to its free-flow travel time.

Travel time reliability is quantified using the **Buffer Time Index (BTI)**, which represents the additional time a traveler must budget to ensure on-time arrival. It is determined by the difference between the average travel time and the 95th percentile travel time, normalized to free-flow conditions.

The relationship between the Travel Time Index (TTI), the 95th Percentile Travel Time Index, and the Buffer Time Index (BTI) is illustrated in **Figure 27**.

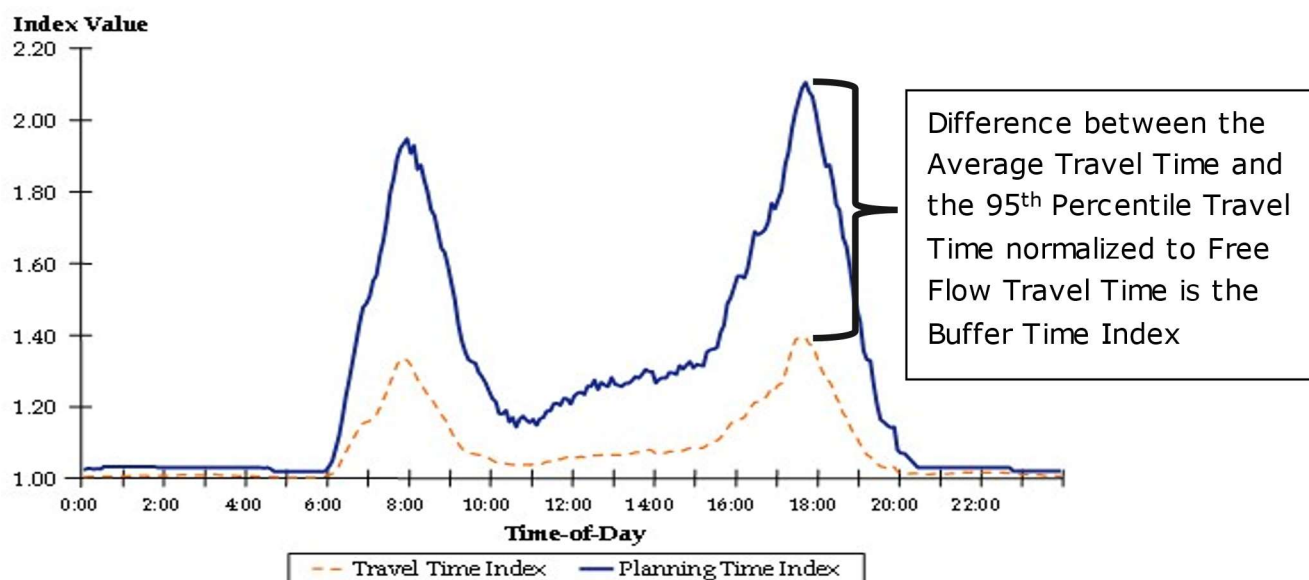


Figure 27. Relationship between Average Travel Time and 95th Percentile Travel Time²¹

City of Sacramento's Policies on Congestion

According to the City of Sacramento General Plan, some levels of corridor congestion are considered acceptable. Instead of prioritizing congestion reduction, transportation improvements aim to enhance mobility for all users and ensure a reliable travel experience. This means that while peak-hour travel delays may persist, travelers can plan their trips with greater confidence in arrival times.

Data Collection and Analysis

To evaluate travel time reliability and congestion along Howe Avenue, average speed data were obtained from the Federal Highway Administration's (FHWA) National Performance Management Research Data Set (NPMRDS). In this data set, congestion is defined as peak-hour speeds that are 60% or less of free-flow speeds.

For consistency, data was filtered to reflect annual average weekday conditions, focusing on typical a.m. and p.m. peak periods (Tuesday through Thursday). Analyses were conducted separately for passenger vehicles and heavy-duty trucks, as well as for both combined.

The most congested continuous 60-minute intervals were identified as the peak periods for each vehicle type. Free-flow speed (FFS) was determined by analyzing the highest recorded vehicle speeds during off-peak hours (12:00 a.m. to 3:00 a.m.). Congestion and

²¹ Source: Traffic Congestion and Reliability: Linking Solutions to Problems, FHWA, 2004

reliability thresholds, as defined in the *Highway Capacity Manual, 7th Edition*, are summarized in **Table 9**.

Travel time reliability and congestion metrics were analyzed for passenger vehicles, trucks, and combined traffic during the a.m. peak hour (8:00 to 9:00 a.m.) and p.m. peak hour (4:00 to 5:00 p.m.). **Figure 28** through **Figure 33** illustrate that, despite persistent congestion, the corridor demonstrates minimal variability in travel times. **This suggests that while congestion levels are consistently high, travel time reliability remains stable across all vehicle types and peak periods.**

Table 9. Congestion and Reliability Performance Measures

	RELIABLE	MODERATELY RELIABLE	UNRELIABLE
BUFFER TIME INDEX	BTI < 1.25	BTI 1.25-< 1.5	BTI >= 1.5
UNCONGESTED			
>= 60% OF FREE FLOW SPEED	Predictable and efficient	Not always predictable, usually efficient	Unpredictable, not often congested
CONGESTED			
<60% OF FREE FLOW SPEED	Predictable and inefficient	Not always predictable, usually inefficient	Unpredictable, not often congestion

Source: Highway Capacity Manual, 7th Edition.

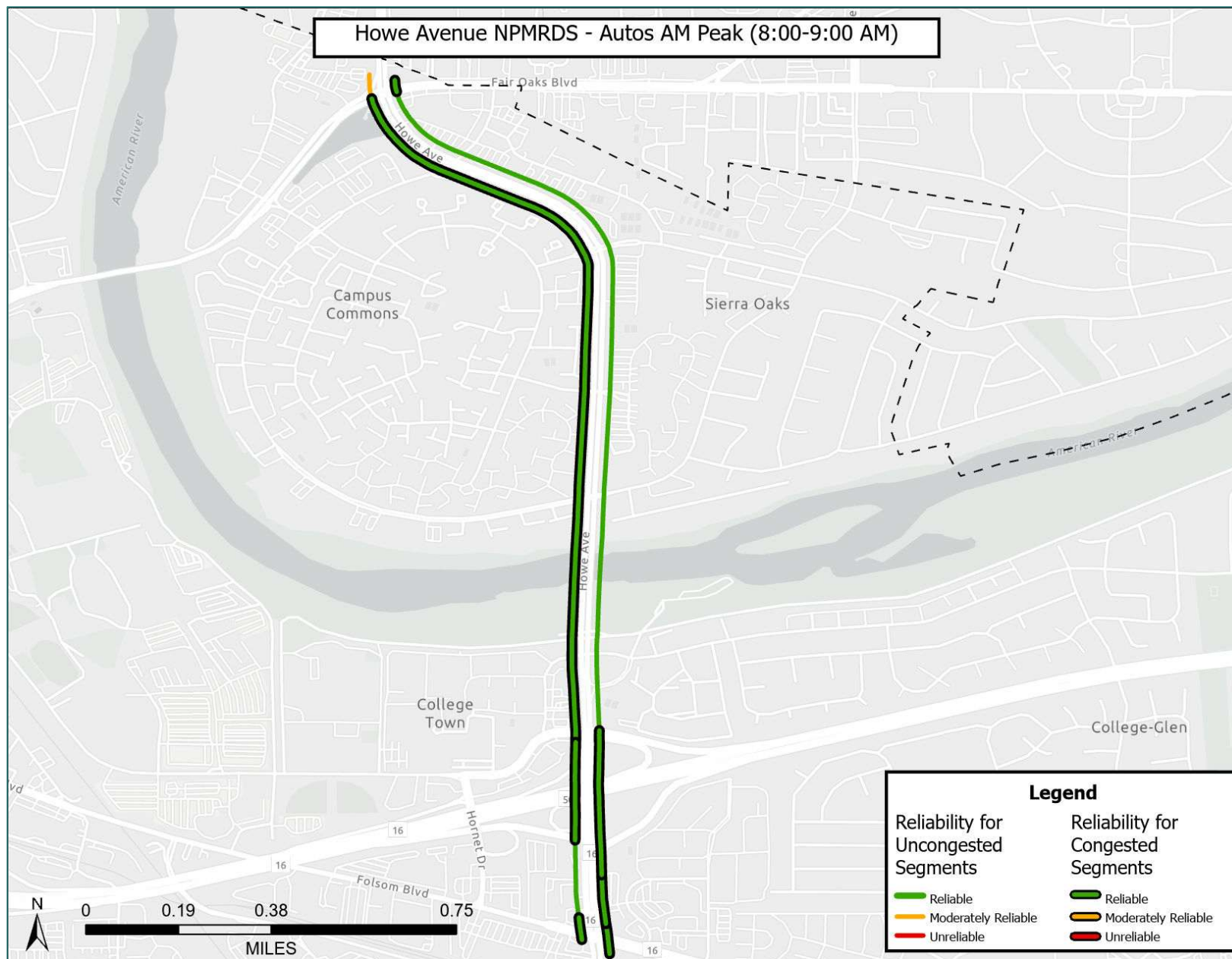


Figure 28. Autos A.M. Peak Hour Travel Time and Congestion

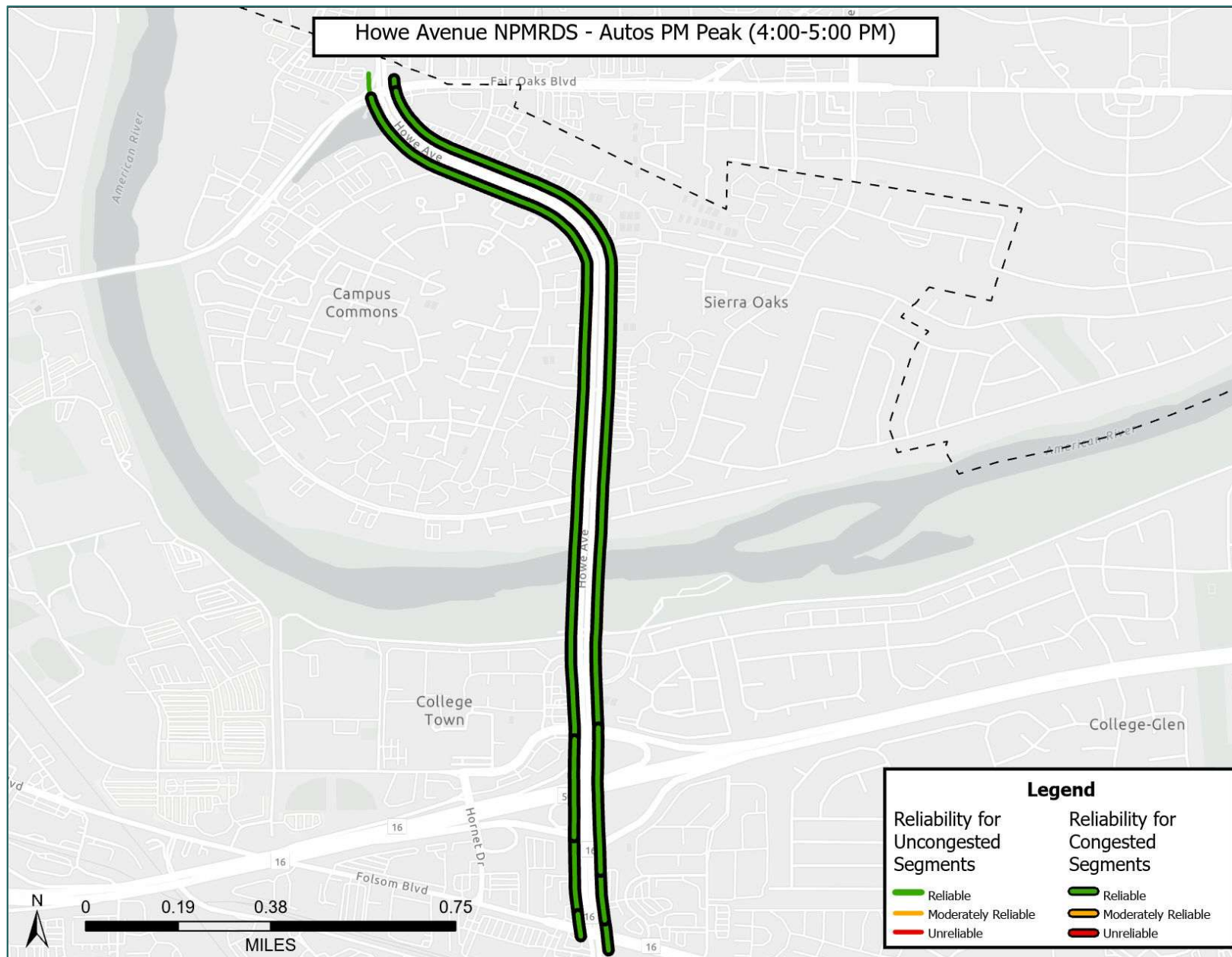


Figure 29. Autos P.M. Peak Hour Reliability and Congestion

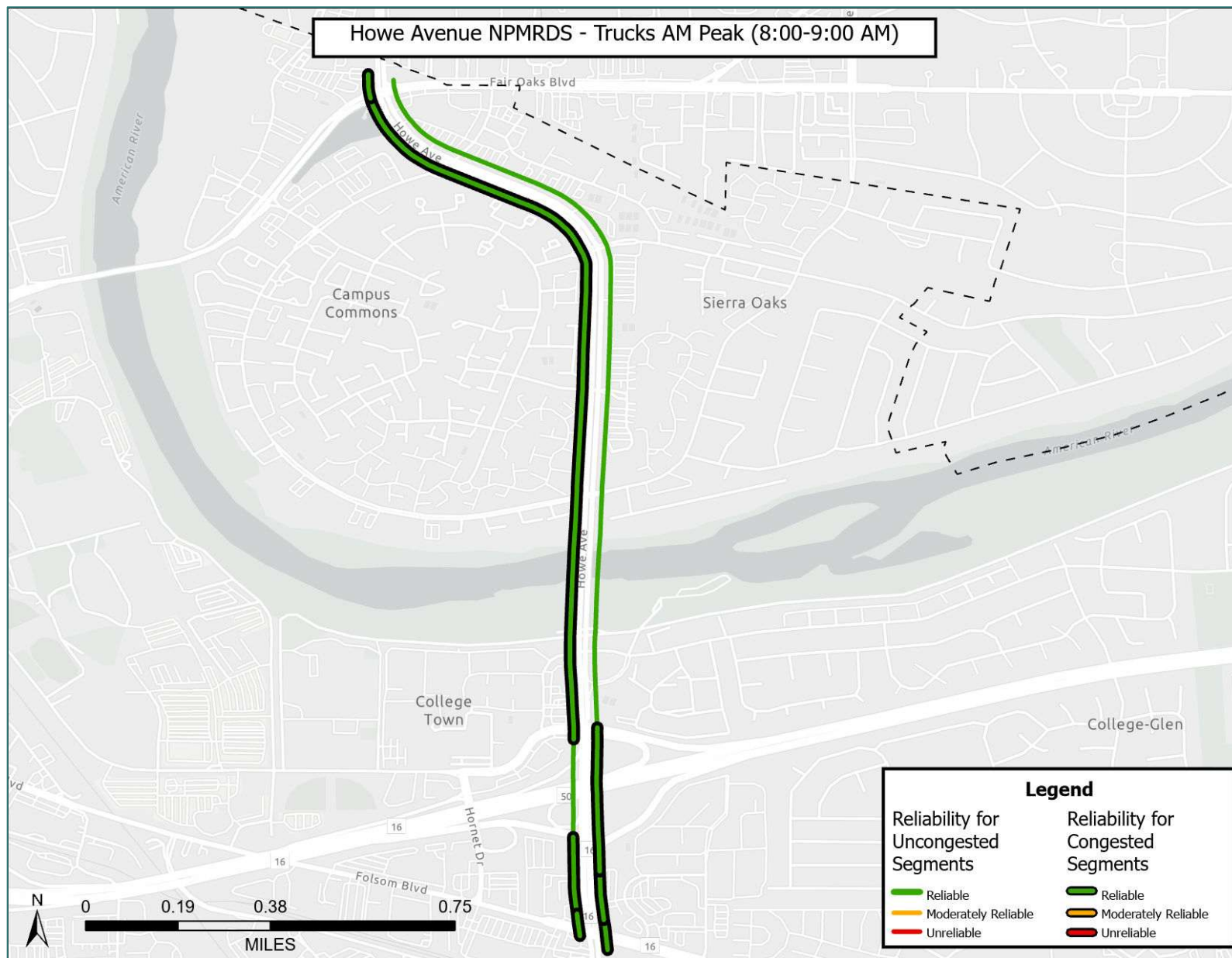


Figure 30. Trucks A.M. Peak Hour Reliability and Congestion

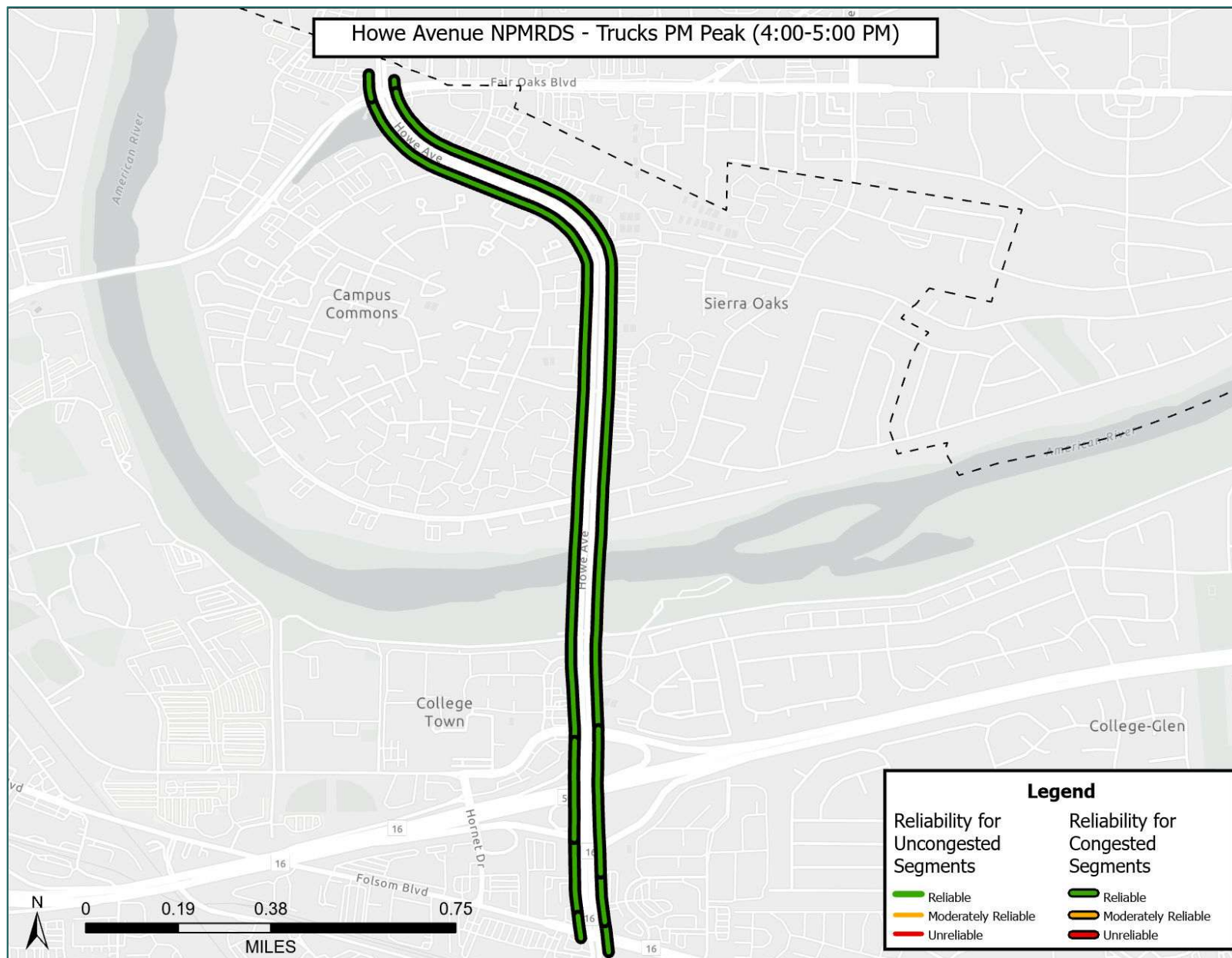


Figure 31. Trucks P.M. Peak Hour Reliability and Congestion

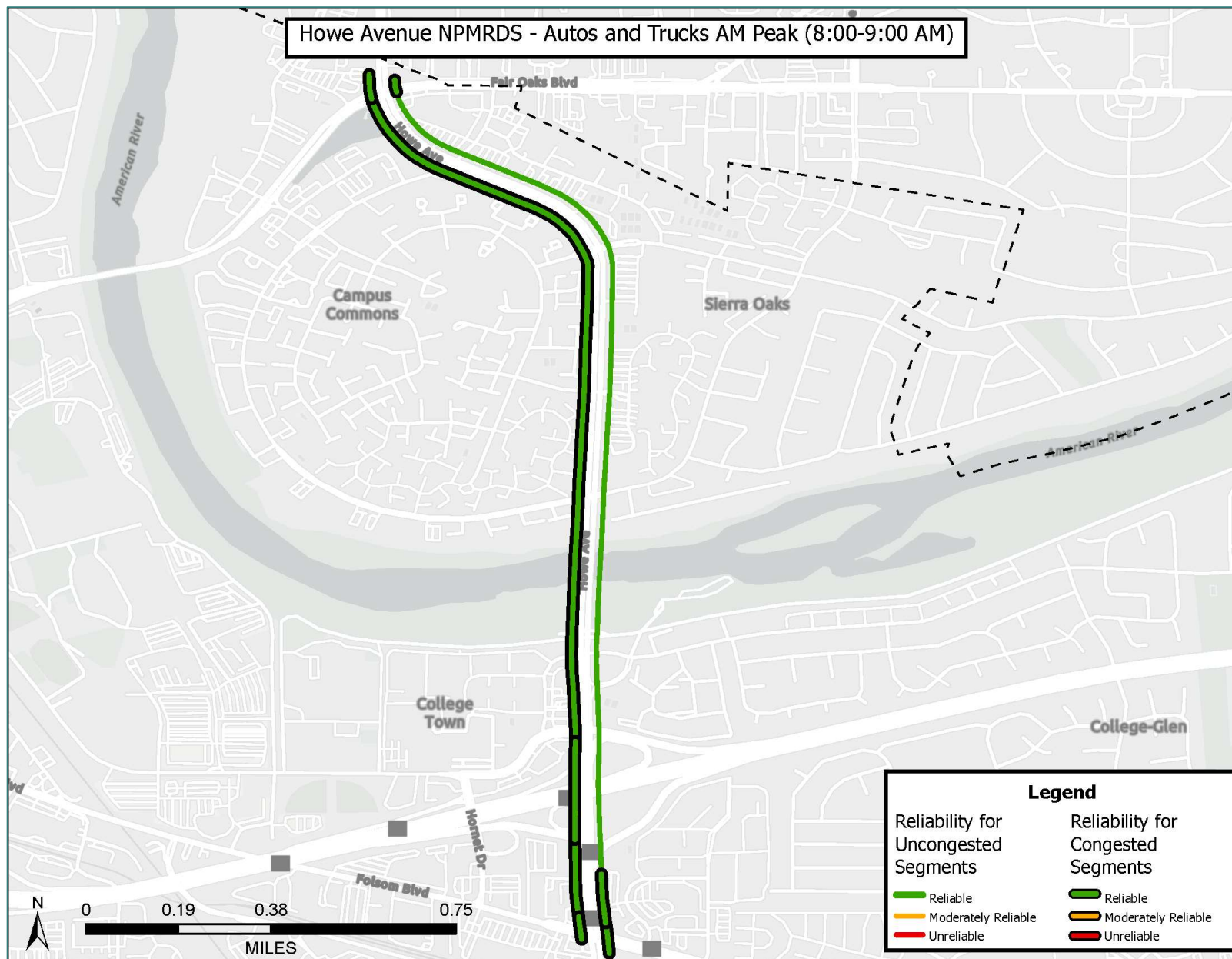


Figure 32. Autos and Trucks A.M. Peak Hour Reliability and Congestion

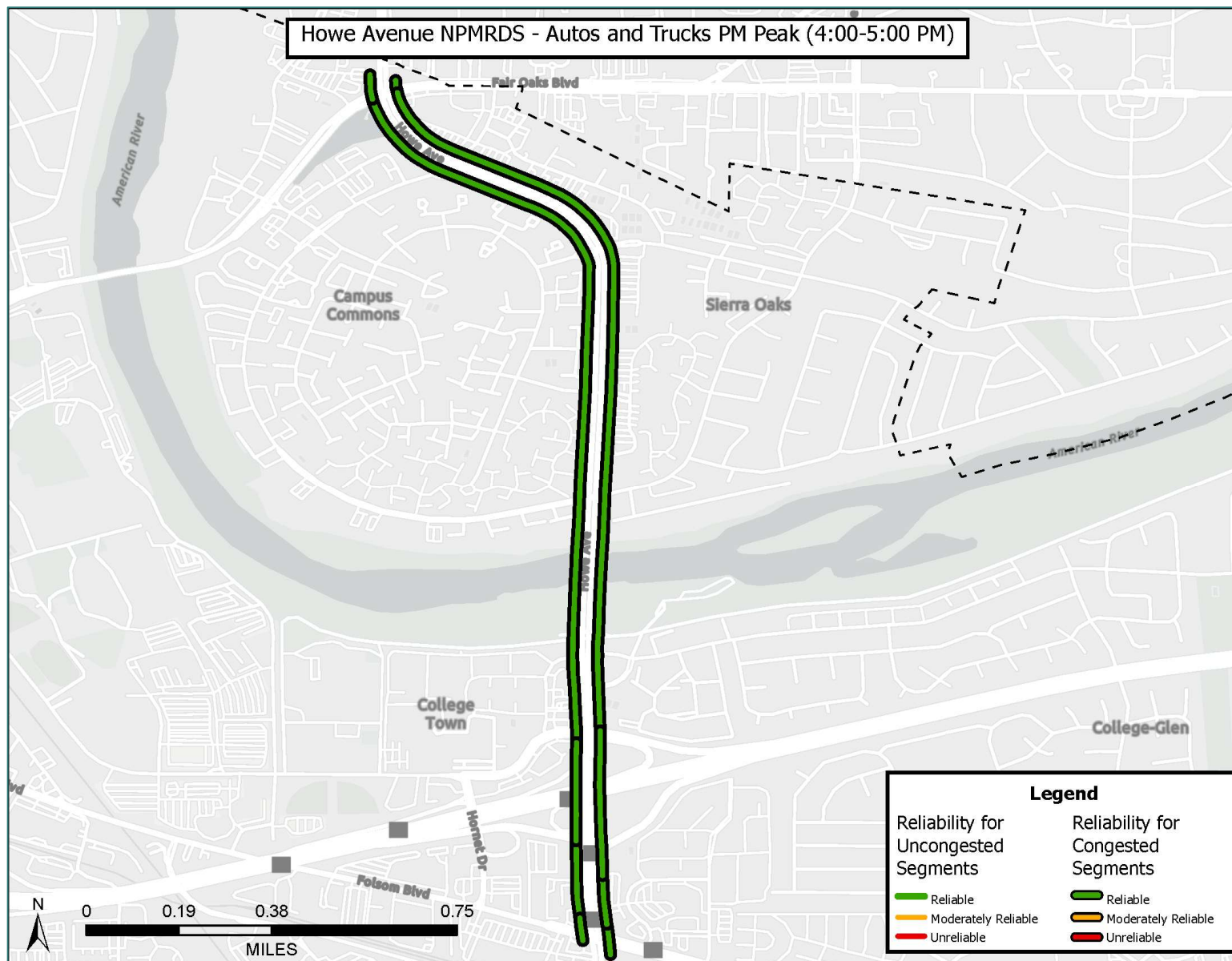


Figure 33. Autos and Trucks P.M. Peak Hour Reliability and Congestion

Public Engagement Summary

This section outlines public engagement events, engagement media methods, and public feedback results for the Connecting Howe Avenue Safety & Mobility Plan, including an overview of in-person and virtual meetings, methods for collecting community input, and a summary of feedback through surveys and interactive maps.

Public Engagement Events

In Person Event

On Wednesday, November 20, 2024, the project team hosted an in-person engagement event to engage community members on the Connecting Howe Avenue Safety & Mobility Plan. The event was held from 6:30 to 8:00 p.m. at the Scottish Rite Masonic Center (6151 H St, Sacramento, CA 95819).

To promote awareness of the public workshop and virtual meeting, a flyer was circulated on the City of Sacramento website, pop-up events, and social media outlets to promote the upcoming events. The event flyer consisted of meeting information, project background, links, and a QR code to route views to the project website, survey, and comment map.



The workshop began with a presentation outlining the project's purpose, goals, and need. Following the presentation, attendees were encouraged to participate by completing a community survey or contributing feedback via an interactive map on Social Pinpoint. The project team set up four comment boards dedicated to different transportation modes—walking, biking, driving, and transit- to solicit feedback.

Approximately eight to ten attendees participated in the event, engaging with the project team. Attendees shared feedback about concerns along Howe Avenue and suggested potential improvements. Materials from events are provided in **Appendix E**.

Virtual Meeting

On Monday, December 2, 2024, the project team held a virtual community meeting to engage community members and gather public input. This event, conducted via Zoom

from 6:30 p.m. to 7:30 p.m., served as an alternative option for those who may not be able to attend in-person events.

The workshop began with a brief presentation outlining the project’s purpose, need, and goals. Participants were encouraged to share their comments, questions, and concerns with project staff during the session. Additionally, attendees received information about the project website, where they could complete a survey and/or explore the interactive map at their convenience.

Approximately 10 community members attended the meeting and provided input and feedback on existing conditions on Howe Avenue.

On Wednesday, December 11, 2024, City staff presented at a standing Folsom Boulevard Coalition meeting, similar to the workshop mentioned above.

Project Website

The Connecting Howe Avenue Safety & Mobility Plan has a dedicated page²² on the City of Sacramento’s website. As shown in **Figure 34**, the project webpage provides details including the project background, corridor extents, schedule, and methods for public input. The webpage offers two primary ways for community engagement: a survey and an interactive Social Pinpoint map for public comments (**Figure 35**).

The community survey was available both online and at the in-person workshop, where it was offered in English and Spanish (**Figure 36**).

²² City of Sacramento. (n.d.). *Connecting Howe Avenue*. Public Works Department. Retrieved January 9, 2025, from https://www.cityofsacramento.gov/public-works/transportation/current_transportation_efforts/connecting-howe-avenue

Connecting Howe Avenue

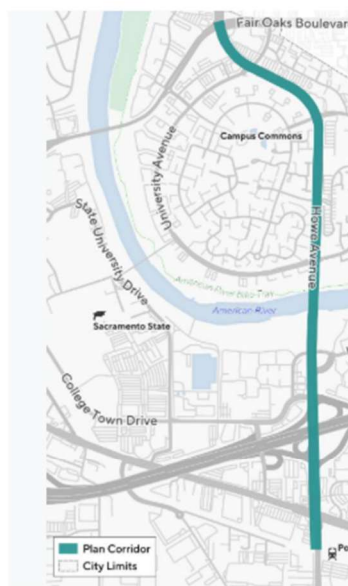
Project overview

Howe Avenue between Fair Oaks Blvd and the Power Inn light rail station south of Folsom Blvd is a critical corridor serving Sacramento State, students, businesses and residents. However, it is one of the top 10 corridors in Sacramento with the highest number of transportation related severe injuries and fatalities.

The City of Sacramento was awarded a competitive planning grant to review data, work with communities to develop a plan to address safety and mobility on the corridor.

The goal of the plan is to identify a data driven, community supported plan for a future Howe Avenue that will improve safety and mobility. Having a Council adopted plan ensures the City is eligible for competitive grant funding for any next phases such as Preliminary Engineering Design, Environmental Clearance, Final Design and Construction.

We're just getting started! See our schedule below and ways to be engaged in the effort.



Connecting Howe Ave Plan Corridor

Schedule

Summer – Fall 2024: Existing conditions analysis

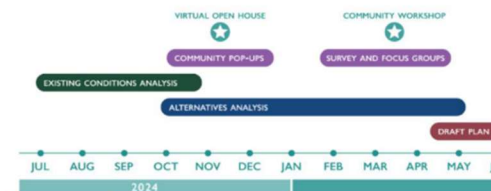
Fall-Winter 2024/2025: Community engagement including virtual open house and community pop-ups

Fall 2024 – Spring 2025: Alternatives analysis

Winter 2025: Community engagement including community survey, virtual open house and focus groups

Spring 2025-Fall 2025: Draft plan development and community engagement

Winter 2025: Final Plan



Share your input

There will be a variety of opportunities for you to get involved and provide your input, including community pop-ins where we will meet with the community where they are, as well as in-person and virtual workshops.

In-Person Workshop

Wednesday, November 20, 2024
6:30-8:00pm
Scottish Rite Masonic Center
6151 H Street, Sacramento

Virtual Workshop

Monday, December 2, 2024

6:30-7:30pm

[Registration Link](#)

* Registration required

Online Survey

Take the [online survey](#) to share your thoughts on Norwood.

Interactive Comment Map

You can also share your comments on our [online map](#) .

How can I stay engaged?

Public involvement is a major component of the planning process.

News Alerts

Sign up for Connect Howe Ave News Alerts ☐

Submit a Comment

Submit your comment


Figure 34. Connecting Howe Avenue Safety & Mobility Plan Project Web Page

We need your input!

Use the interactive map to provide comments about locations in the study area.

Follow these instructions to use the map:

- **To add a comment** > Select the 'Add Marker' button in the lower right corner of the map and click the specific location where you want to leave your comment. Fill out the details of the input form as required and select the 'Submit' button.

 Add Marker

- **To view the map legend and/or turn map layer on/off** > Select the icon in the upper left corner of the map that looks like a stack of papers. The display box will show the maps layers. Click next to the circle to the right of each layer label to toggle that layer on/off.



- **To select an a different base map** > Select the icon in the upper left corner of the map that looks like an unfolded map. The display box will show several base map options to choose from.



- **To view additional map instructions** > Select the question mark icon just above the map in the upper left corner. The display box will include more instruction information.

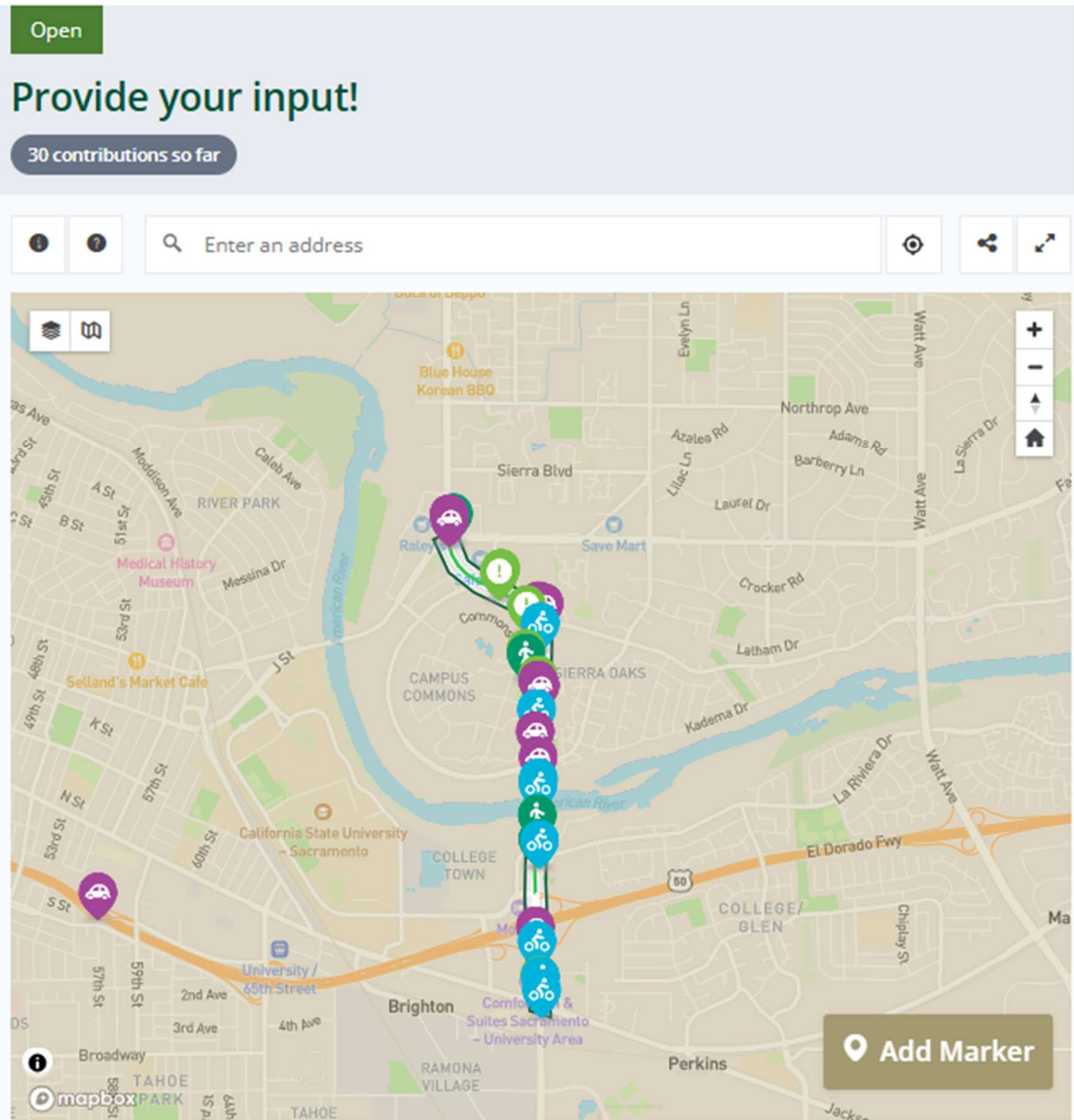


Figure 35. Interactive Comment Map

Community Survey

Please take the following brief survey. Your input is extremely valuable, and it will help the project team select the preferred future options and potential physical changes to Howe Avenue.

What is your zip code?

How often do you typically travel on Howe Avenue?

- ☐ Daily
- ☐ Some Days (e.g., work commute, shopping, and errands)
- ☐ Weekly
- ☐ Every Couple of Weeks
- ☐ Monthly
- ☐ Rarely

How do you typically travel on Howe Avenue? Select all that apply.

- ☐ Driving in a Personal Vehicle
- ☐ Riding in a Personal Vehicle (being driven by someone)
- ☐ Public Transit
- ☐ Paratransit
- ☐ Walking/Rolling
- ☐ Bicycling (including using e-bikes)
- ☐ Scooting
- ☐ Ride-Sharing (Uber, Lyft), Taxi
- ☐ Other (please specify)

For the next questions, please rate your interest in each potential change to Howe Avenue on a scale from 1 (least interested) to 5 (most interested).

Improved public transit stop conditions and access

1 = least interested, 5 = most interested

- ☐ 1
- ☐ 2
- ☐ 3

Figure 36. Community Survey

Public Engagement Results

Since the launch of the project webpage in September 2024, through December 2024, the Connecting Howe Avenue Safety & Mobility Plan Social Pinpoint Platform has received 179 views, over 70 interactive map comments, and more than 100 community survey responses. The following sections summarize public feedback collected through the Social Pinpoint interactive map and project survey.

Social Pinpoint Results

The interactive map allowed visitors to provide feedback across six categories: walking, bicycling, driving, transit, general safety, and other concerns. Due to the volume of responses, the results have been organized by primary intersections.

Figure 37 presents a cartogram illustrating public comments by transportation mode across intersections on Howe Avenue. The vertical axis shows the number of comments, while the horizontal axis highlights specific intersections and locations along the corridor. The area near University Park Drive received the most feedback, with 14 to 16 comments focusing on various issues. Walking and bicycling concerns were consistent throughout the corridor, while transit-related comments were concentrated near Swarthmore Drive.

Overall, the primary concerns identified were related to driving, bicycling, safety, and walking and rolling (see **Figure 38**). Key themes from the social pinpoint comments and public survey are summarized as follows:

Major Safety Priorities

- Excessive vehicle speeds
- High-risk crosswalks at major intersections
- Unsafe merging areas and unclear lane markings
- Poor visibility at intersections and crosswalks

Missing Connections

- Incomplete sidewalk network
- Gaps in bike lanes and trails
- Poor access to transit stations
- Disconnected multi-use paths near La Riviera and Folsom Blvd

Problem Intersections & Areas

- Fair Oaks/Howe: Difficult turns, safety risks for people walking, and challenges with business access.
- Howe/American River: Crash-prone area with frequent red light running.
- Swarthmore Drive: Dangerous merging and speeding concerns.

- Power Inn LRT Station: An isolated feel and poor connectivity.

Community Impact

- People driving short distances instead of walking/biking due to safety concerns
- Difficulty accessing local businesses and amenities
- Navigation challenges during peak hours
- Concerns about neighborhood quality of life (noise, traffic)

The overarching message from this community feedback is that current road conditions prioritize vehicle throughput at the expense of safety and accessibility for other modes of travel, particularly affecting local community access to nearby destinations. A full summary of comments is provided in **Appendix F**.

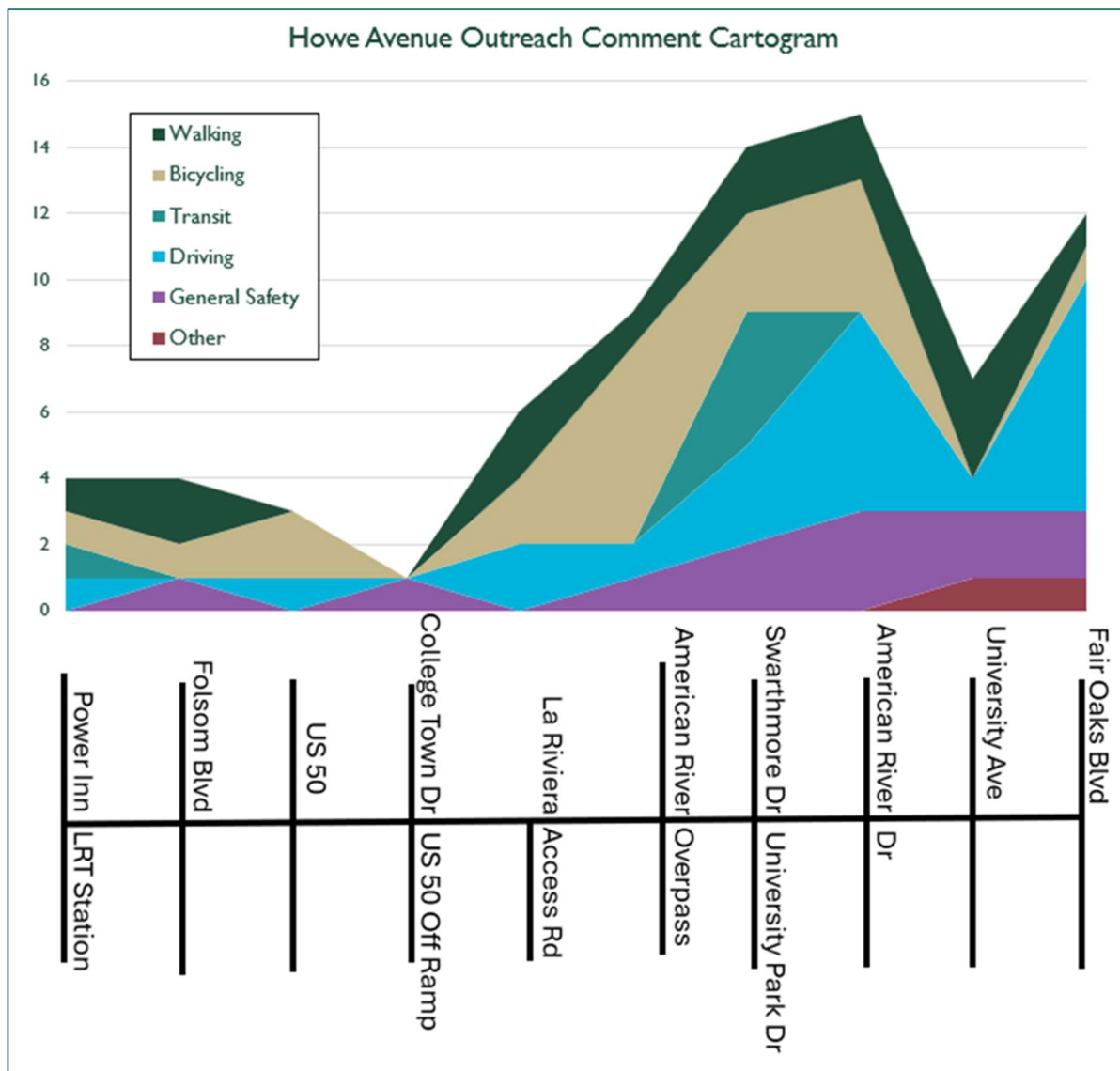


Figure 37. Comment Type by Intersection (Social Pinpoint and Survey)

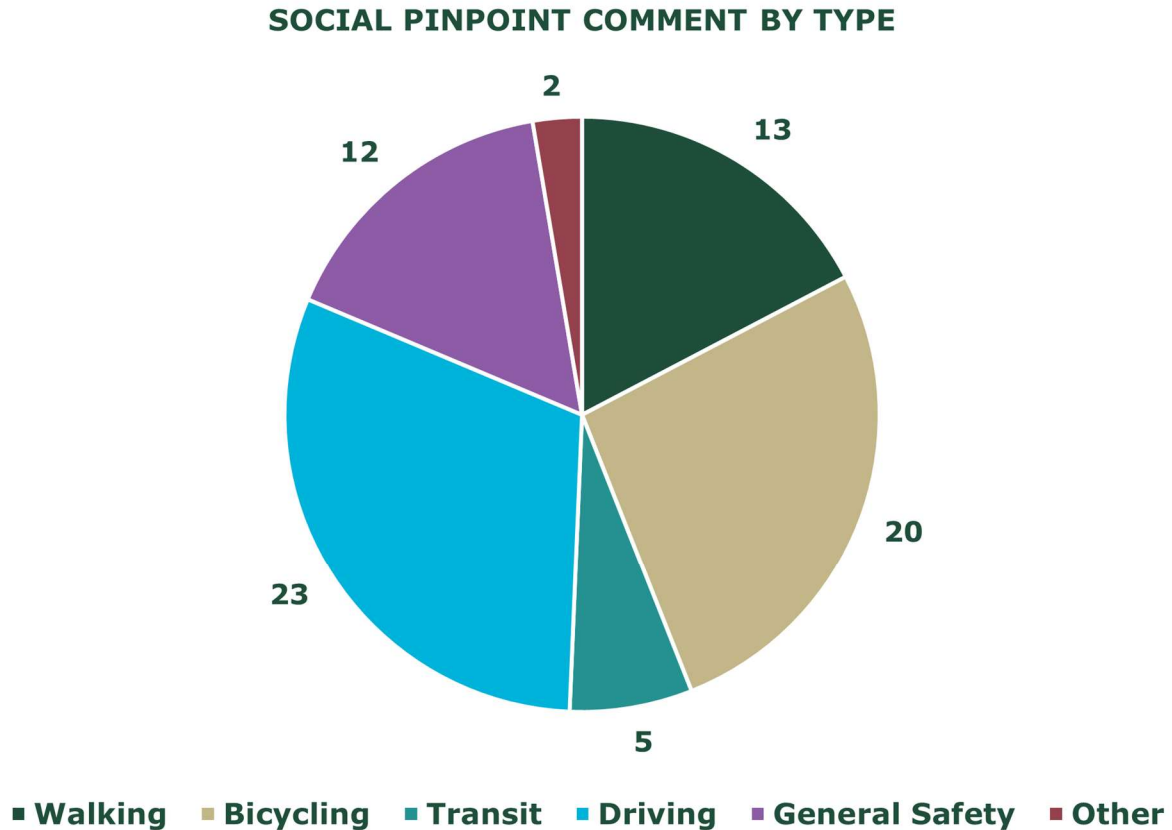


Figure 38. Social Pinpoint Comment by Type

Project Survey Results

The project webpage featured an interactive comment map, and a community survey designed to understand user interactions with the corridor and identify desired improvements. As illustrated in **Figure 39** and **Figure 40**, over 80% of respondents reported using Howe Avenue daily or occasionally, with the majority traveling by car.

The survey presented potential corridor enhancements, asking participants to rank their interest in each option on a scale from least to most interested. Results, highlighted in **Figure 41** to **Figure 43**, indicate strong community interest in improving biking, walking, and driving conditions along Howe Avenue.

RESPONSE TO: HOW OFTEN DO YOU TYPICALLY TRAVEL ON HOWE AVENUE?

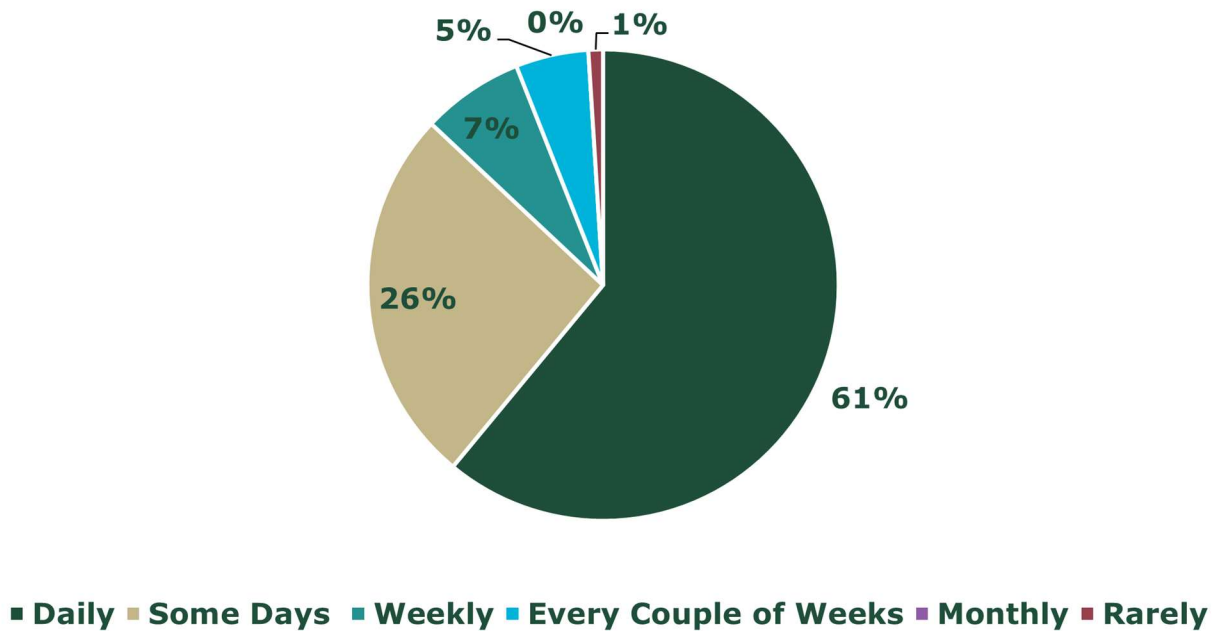


Figure 39. Community Survey - Question 2: How Often do you Typically Travel on Howe Avenue?

RESPONSE TO: HOW DO YOU TYPICALLY TRAVEL ON HOWE AVENUE? SELECT ALL THAT APPLY.

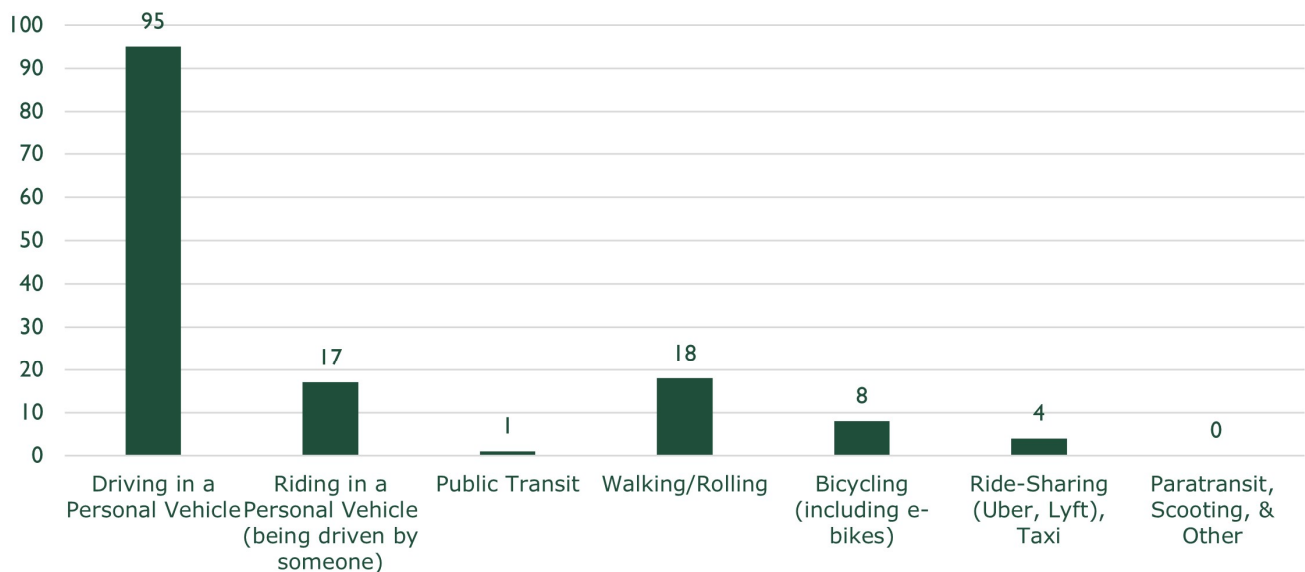


Figure 40. Community Survey - Question 3: HOW DO YOU TYPICALLY TRAVEL ON HOWE AVENUE?

**RESPONSE TO: INTEREST IN IMPROVED WALKING CONDITIONS
SUCH AS WIDER SIDEWALKS AND STREET TREES.**

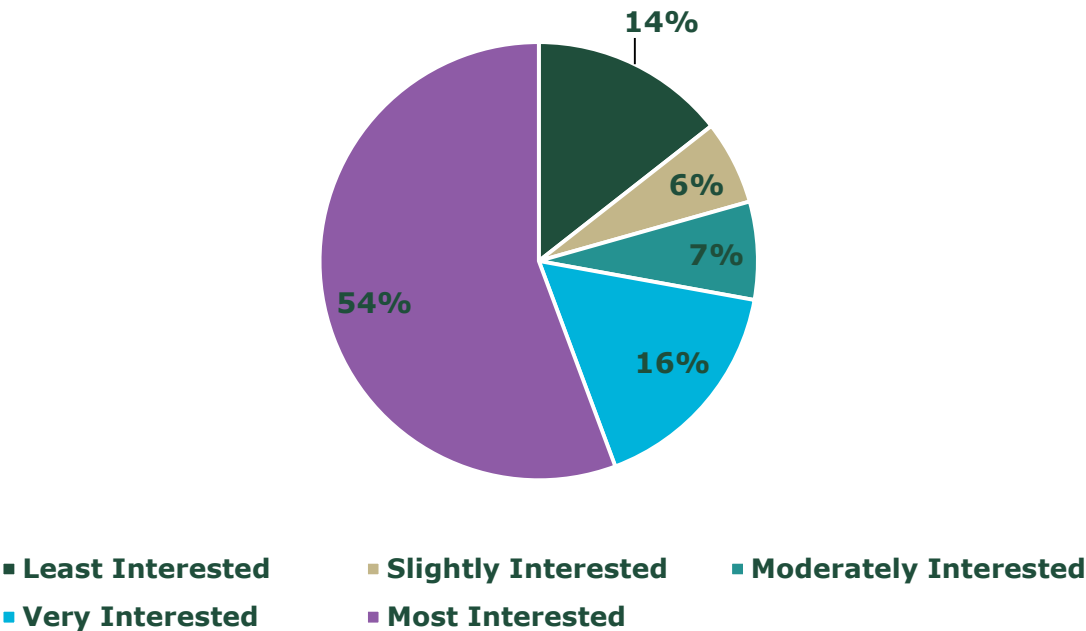


Figure 41. Community Survey - Interest in Improved Walking Conditions

**RESPONSE TO: INTEREST IN IMPROVED WALKING AND
BICYCLING CROSSING OF HOWE AVENUE**

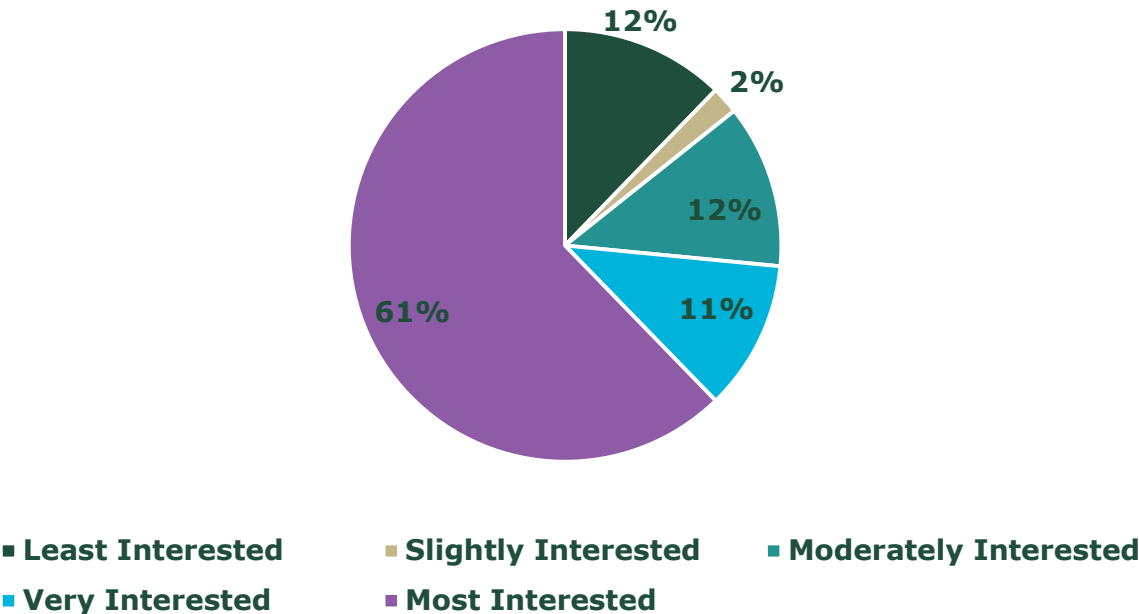


Figure 42. Community Survey - Interest in Walking and Bicycling Crossings

RESPONSE TO: INTEREST IN IMPROVED DRIVING SAFETY

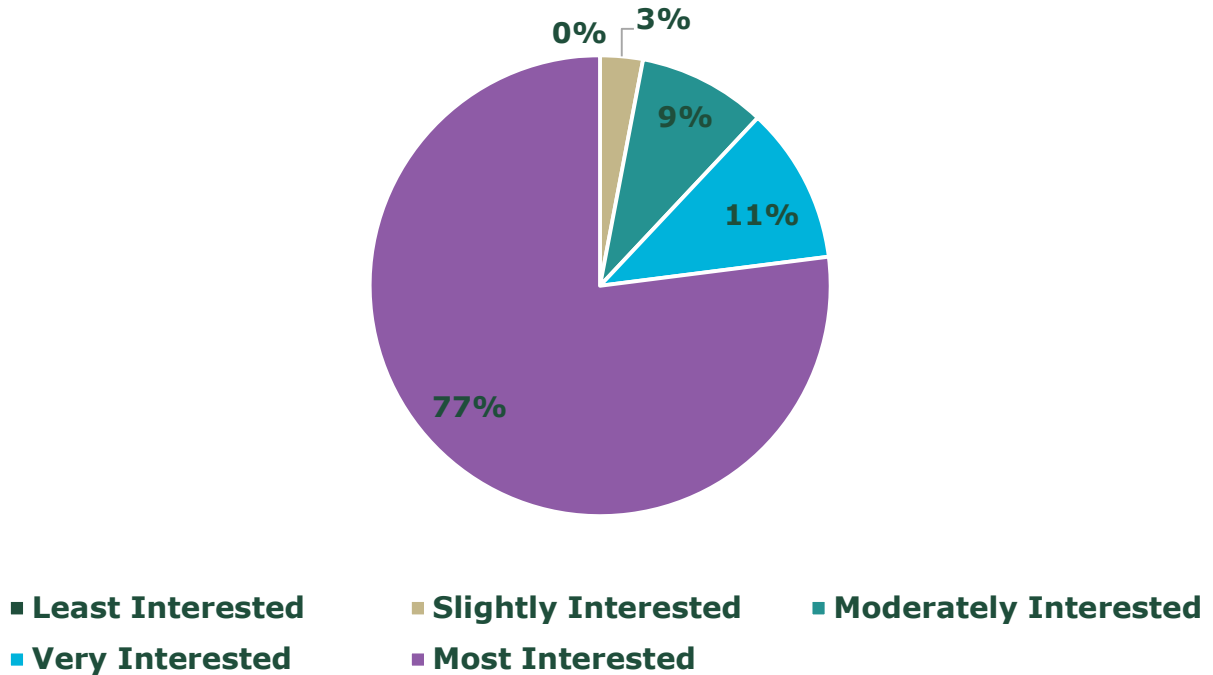


Figure 43. Community Survey - Interest in Improving Driver Safety

Existing Transportation Challenges and Constraints

This section outlines key issues with multimodal infrastructure along Howe Avenue identified as part of the existing conditions analysis and community engagement efforts. **Figure 44** illustrates the existing infrastructure along Howe Avenue and identifies bike lanes and sidewalk gaps.

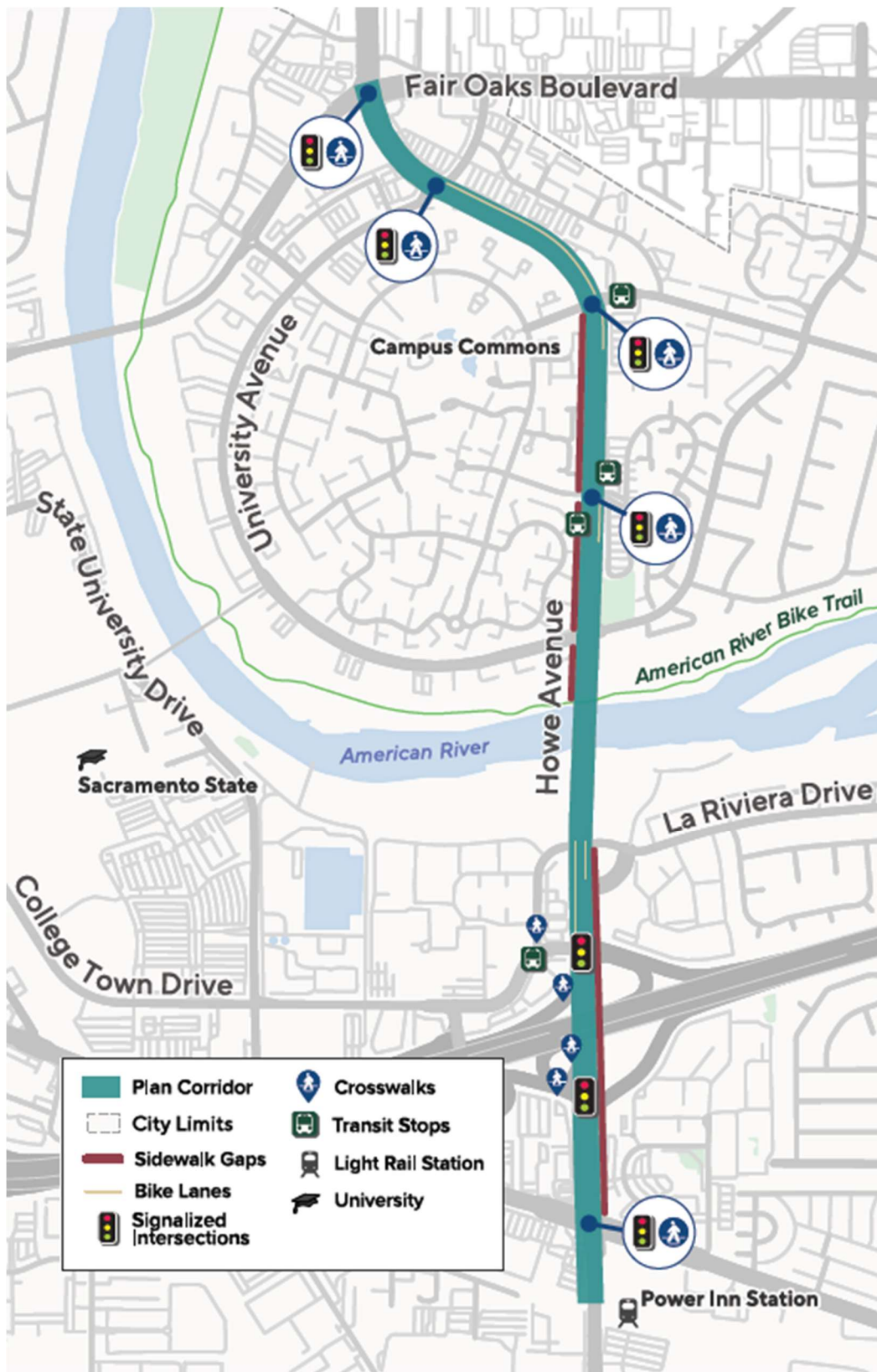


Figure 44. Infrastructure Gaps and Constraints

Infrastructure for Walking/Rolling

Existing sidewalks are generally five to six feet wide, but segments narrow to less than five feet near the Howe Avenue Bridge.

Gaps in the sidewalk network are present on both sides of Howe Avenue:

- West side of Howe Avenue:
 - From American River Drive to Swarthmore Drive.
 - From Swarthmore Drive to the University Avenue overcrossing.
 - From the University Avenue overcrossing to the Howe Avenue Bridge.
- East side of Howe Avenue:
 - From the La Riviera overcrossing to Folsom Boulevard.

All study intersections are equipped with pedestrian signals, push buttons, and marked crossings. Curb ramps are installed at all crossing locations; however, some intersections lack detectable warning surfaces and landing areas. These include:

- American River Drive
- Swarthmore Drive
- College Town Drive
- Folsom Boulevard

Crossings are not provided for the southern approach for intersections at the cross-streets of American River Drive and Swarthmore Drive/University Park Drive due to a lack of sidewalks on the west side of Howe Avenue.

The walking Level of Traffic Stress (LTS) score is four, reflecting uncomfortable and stressful conditions for most people walking or rolling, including those using mobility aids.

Community engagement efforts identified the following walking infrastructure concerns and priorities on Howe Avenue:

- Traffic safety concerns at major intersections, particularly poor visibility at crosswalks and intersections such as Fair Oaks/Howe, which pose significant dangers to people walking or rolling.
- Incomplete sidewalk networks and disconnected walking paths, notably near La Riviera and Folsom Boulevard.
- Safety concerns discourage walking and biking, contributing to increased short-distance car trips.

Infrastructure for Biking

Bike lanes are present along Howe Avenue and are approximately five feet in width. These bike lanes connect to the broader bicycle network via the American River Parkway shared-

use path, as well as painted bike lanes on American River Drive, University Avenue, and La Riviera Drive.

Given Howe Avenue's posted speeds of 40 to 50 mph and traffic volumes of up to 59,000 vehicles per day, the current Class II bicycle lanes do not align with FHWA or City of Sacramento guidance for recommended bicycle infrastructure on roadways with these characteristics.

The bicycle LTS score is four, reflecting high stress conditions for people biking on Howe Avenue.

Community engagement efforts identified several concerns related to bicycling from participants:

- Missing connections in the bicycle network, including connections to the American River Trail
- Confusion on merging zones and lane markings for people bicycling
- Hesitancy and concern over biking on Howe Avenue due to high vehicle travel speeds.
- Strong interest in improving biking conditions on Howe Avenue.

Transit Infrastructure

There are only two bus stops directly on the corridor, and both are equipped with shelters at Howe Avenue and Swarthmore Drive. SacRT Bus Route 26 operates along Howe Avenue with approximately 30-minute headways slowing to 60-minute headways after 7 p.m. Additionally at the south end point of the study corridor, south of Folsom Boulevard, is the **SacRT Power Inn Light Rail Station** which connects to the SacRT Gold Line.

There are several SacRT routes such as routes 82, 87, 210, 211, and 255 that operate adjacent to Howe Avenue. While these routes do not operate on Howe Avenue, people using these bus routes may travel on Howe Avenue to reach these stops. These adjacent routes operate with 15–60-minute headways on weekdays and 45–60 minute headways on weekends. Lines 210, 211, and 255 have limited schedules, serving schools on weekdays only. SacRT lines 82, 87, 210, 211, and 255 are poorly connected due to missing sidewalks near Fair Oaks Boulevard.

Weekday ridership data collected from January to August 2024 shows an average of 310 riders across all stops. Route 26 bus stops averaged three riders per stop per weekday, while the eastbound and westbound Power Inn LRT averaged 140 riders per weekday.

Community engagement efforts noted **poor access to transit stations** as a key challenge. Transit-related comments were concentrated near Swarthmore Drive. The community survey indicated interest in improving the walking and biking infrastructure along Howe Avenue and improving access to transit.

In 2023, SacRT developed the *Design Guidelines for Bus and Light Rail Facilities*, which outlines design and amenity considerations to improve accessibility and safety at transit stops. The design guidelines state that transit infrastructure is expected to provide access for people with disabilities, and include lighting, shelter, seating, and trash bins.

Safety

A total of 201 crashes occurred on Howe Avenue between 2018 and 2023. 18 crashes resulted in persons being killed or suffering severe injuries (KSI). The North Segment of Howe Avenue experienced the highest number of total crashes (77) and KSI crashes (9). The South Segment had 70 total crashes and 6 KSI crashes, while the Middle Segment had 54 total crashes and 3 KSI crashes. 151 crashes (75% of the total) occurred at intersections.

There were two bicycle-involved crashes, one each in the North and South Segments. There were three crashes involving people walking, two in the North Segment and one in the South Segment. All three crashes involved improper turning or failure to yield at intersections as the primary crash factor.

Rear-end collisions were the most frequent crash type, accounting for 101 (50%) of crashes, with a concentration at the intersection of American River Drive. Broadside crashes were the second most common, totaling 46 (23%).

Unsafe speed was the primary factor in 104 crashes (52%). Improper turning was a factor in 28 crashes (14%). Of the 18 KSI crashes, 7 (39%) involved unsafe speeds and 4 (22%) were related to driving under the influence (DUI).

The intersection of Howe Avenue and American River Drive is a location with a high rate of rear-end collisions and also where several "hit object" crashes resulting in KSI crashes occurred.

Community engagement revealed concerns about excessive vehicle speeds. Community members reported that they drive short distances instead of walking/biking due to safety concerns. The community survey indicated a strong interest in improving driving safety, and crossings for people walking or biking.

Right of Way

The ROW width along Howe Avenue varies across its three segments. From curb to curb, the ROW ranges from 90 to 115 feet involving the following components:

- The ROW narrows to 30 to 35 feet on the Howe Avenue Bridge.
- Lane widths are approximately 11-12 feet through the length of the study corridor but narrow to approximately 10 to 10.5 feet on portions of the Howe Avenue Bridge.

- Sidewalks along the study corridor are 5 feet but are the responsibility of the fronting property owner²³.

Additional consideration for ROW will need to be given to the Howe Avenue bridge due to reduced roadway width and the structure providing a constrained roadway width. Where the corridor is two lanes per direction, design alternatives can use existing roadway space to improve infrastructure for people walking or biking such as widening sidewalks or implementing Class I or Class IV facilities.

²³ [Sacramento City Code, Section 12.32.020](#)

APPENDIX



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CONTENTS

APPENDIX A: TRAFFIC VOLUMES

APPENDIX B: TRANSIT DATA

APPENDIX C: SIGNAL TIMING WORKSHEETS

APPENDIX D: SYNCHRO REPORTS

APPENDIX E: PUBLIC WORKSHOP MATERIALS

APPENDIX F: PUBLIC COMMENT



APPENDIX A: TRAFFIC VOLUMES

Summary
Bin Size 15 minutes
Aggregation Median
Time Zone America/Los_Angeles
Start Time 10/14/2024 0:00
End Time 10/18/2024 23:59
Location Howe Ave & Fair Oaks Blvd
Latitude an 38.57413508,-121.41541391

Entry Direction Start Time	North Southbound Right	East										South										West									
		Westbound					Northbound					Eastbound					Westbound					Northbound									
		Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW	
0:00:00		7	28	4	0	0	0	1	7	1	0	0	0	0	32	3	0	0	0	0	11	13	0	0	0	0	0	0	0	0	0
0:15:00		9	19	2	1	0	0	3	7	2	0	0	0	2	25	3	0	0	0	0	10	11	0	0	0	0	0	0	0	0	0
0:30:00		10	25	4	0	0	0	2	5	1	0	0	0	1	23	3	0	0	0	0	6	9	0	0	0	0	0	0	0	0	0
0:45:00		7	14	2	0	0	0	2	6	1	0	0	0	1	19	2	0	0	0	0	4	8	0	0	0	0	0	0	0	0	0
1:00:00		7	16	3	0	0	0	1	4	1	0	0	0	1	15	2	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0
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2:00:00		2	10	1	1	0	0	0	3	0	0	0	0	0	8	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
2:15:00		2	9	1	0	0	0	1	4	0	0	0	0	1	10	1	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0
2:30:00		5	12	3	0	0	0	2	3	0	0	0	0	1	12	1	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
2:45:00		2	13	1	0	0	0	0	3	1	0	0	0	1	8	1	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
3:00:00		2	10	1	0	0	0	1	4	0	0	0	0	1	8	1	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0
3:15:00		2	11	2	0	0	0	0	5	2	0	0	0	0	7	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
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4:00:00		4	17	1	0	0	0	1	6	0	0	0	0	0	10	2	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
4:15:00		5	33	4	0	0	0	1	6	0	0	0	0	0	17	1	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0
4:30:00		5	59	1	0	0	0	2	7	1	0	0	0	0	17	1	0	0	0	0	5	6	0	0	0	0	0	0	0	0	0
4:45:00		7	53	4	0	0	0	4	16	3	0	0	0	2	26	3	0	0	0	0	11	5	0	0	0	0	0	0	0	0	0
5:00:00		8	34	4	1	0	0	2	17	2	0	0	0	0	29	5	0	0	0	0	10	7	1	0	0	0	0	0	0	0	0
5:15:00		11	42	3	0	0	0	3	10	0	0	0	0	1	28	5	0	0	0	0	10	4	0	0	0	0	0	0	0	0	0
5:30:00		16	106	6	1	0	0	4	25	2	0	0	0	2	43	5	0	0	0	0	10	9	1	0	0	0	0	0	0	0	0
5:45:00		24	108	10	0	0	0	5	47	2	0	0	0	5	52	10	0	0	0	1	14	12	0	0	0	0	0	0	0	0	0
6:00:00		32	95	10	1	0	0	5	43	3	0	0	0	5	62	8	0	0	0	0	20	11	4	0	0	0	0	0	0	0	0
6:15:00		30	113	15	1	0	0	5	63	4	0	0	0	2	72	18	0	0	0	1	20	12	2	0	0	0	0	0	0	0	0
6:30:00		44	155	17	0	0	0	7	77	4	0	0	0	2	94	15	0	0	0	1	27	19	1	0	0	0	0	0	0	0	0
6:45:00		72	159	19	1	0	0	12	110	6	0	0	0	4	135	24	0	0	0	4	42	29	2	0	0	0	0	0	0	0	0
7:00:00		108	150	21	1	0	0	18	147	6	0	0	0	3	146	28	0	0	0	6	60	27	2	0	0	0	0	0	0	0	0
7:15:00		132	149	30	2	0	0	24	187	9	0	0	0	3	158	39	0	0	0	7	82	45	5	0	0	0	0	0	0	0	0
7:30:00		165	211	39	3	0	0	35	222	7	0	0	0	4	197	67	0	0	0	12	117	67	6	0	0	0	0	0	0	0	0
7:45:00		144	248	52	2	0	0	50	260	6	1	0	0	4	206	76	0	0	0	12	140	69	7	0	0	0	0	0	0	0	0
8:00:00		147	258	56	7	0	0	41	207	12	0	0	0	6	207	55	0	0	0	15	153	67	7	0	0	0	0	0	0	0	0
8:15:00		147	192	50	7	0	0	39	235	10	0	0	0	6	199	56	0	0	0	14	129	68	6	0	0	0	0	0	0	0	0
8:30:00		185	235	44	5	0	0	44	216	14	0	0	0	8	205	61	0	0	0	12	107	69	5	0	0	0	0	0	0	0	0
8:45:00		151	176	50	5	0	0	41	189	10	0	0	0	11	205	53	0	0	0	17	135	89	3	0	0	0	0	0	0	0	0
9:00:00		89	163	45	9	0	0	38	162	12	2	0	0	11	188	65	0	0	0	14	134	85	5	0	0	0	0	0	0	0	0
9:15:00		87	142	37	3	0	0	33	158	18	2	0	0	10	187	45	0	0	0	10	118	74	4	0	0	0	0	0	0	0	0
9:30:00		85	154	49	5	0	0	32	146	15	2	0	0	16	180	45	0	0	0	14	116	69	5	0	0	0	0	0	0	0	0
9:45:00		121	162	49	3	0	0	31	149	18	2	0	0	15	197	38	0	0	0	21	119	92	7	0	0	0	0	0	0	0	0
10:00:00		102	156	54	7	0	0	36	131	16	0	0	0	15	172	47	0	0	0	16	124	94	5	0	0	0	0	0	0	0	0
10:15:00		102	150	43	4	0	0	414																							



Vision Data Automator

User Input:

Location:	Demo
Comm Manager I.P.	172.31.56.92
Bin Interval:	15
Start Date:	10/14/2024

Completed:

Last Imported: 10/26/24 1:36 PM

Comm Manager:	
id	421800935
model	Comm Manager
name	PowerInn & Folsom-Howe
firmwareVersion	3.0.0.279
serialNumber	D53426

Camera 1		Camera 2		Camera 3		Camera 4	
id	471365346	id	471343709	id	471365148	id	471353458
model	Vision	model	Vision	model	Vision	model	Vision
name	Power Inn & Folsom-Hov	name	Power Inn & Folsom-Hov	name	Power Inn & Folsom-Hov	name	Power Inn & Folsom-Howe - WB phases 2 & 5
firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279	firmwareVersion	3.0.0.279
serialNumber	066755	serialNumber	066747	serialNumber	066753	serialNumber	066758

	Cam1	Cam2	Cam3	Cam4	Total						
700	315	59	364	250	988	4505	4846	0.94			
715	366	100	438	339	1242	4657					
730	394	113	435	192	1134	4702					
745	442	119	388	193	1142	4780					
800	420	119	355	247	1140	4846					
815	433	141	352	361	1286						
830	368	120	323	401	1212						
845	388	135	305	381	1208						
400	464	164	398	364	1390	5640	5712	0.98			
415	476	189	384	337	1385	5712					
430	495	207	376	359	1436	5698					
445	529	198	373	328	1428	5598					
500	509	182	395	376	1462	5474					
515	482	199	363	329	1372						
530	505	187	341	303	1336						
545	470	224	321	289	1303						

	Northbound				Southbound		Eastbound		Westbound		
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBR	WBL	WBT	WBR
AM	257	1074	4	373	1234	0	108	141	203	764	422
PM	191	1331	6	495	1513	1	92	232	300	592	507
	SBL	SBR	SBT	EBL	EBR	EBT	NBR	NBL	WBR	WBT	WBL
	373	0	1234	108	141	267	4	257	422	764	203
	495	1	1513	92	232	452	6	191	507	592	300

Summary
Bin Size 15 minutes
Aggregation Median
Time Zone America/Los_Angeles
Start Time #####
End Time #####
Location Howe Ave & University Ave
Latitude an 38.57209163,-121.41325959

Entry Direction	North		East										South		West										
	Southbound	Right	Westbound										Northbound		Eastbound										
			Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW	Right	Thru	Left	U-Turn	Peds CW	Peds CCW						
0:00:00	0	27	0	0	0	0	0	0	1	2	0	0	0	2	32	1	0	0	0	1	0	0	0	0	0
0:15:00	0	23	0	0	0	0	0	0	0	3	0	0	0	1	26	2	0	0	0	1	0	0	0	0	0
0:30:00	0	25	0	0	0	0	0	0	0	3	0	0	0	1	22	1	0	0	0	0	0	0	0	0	0
0:45:00	0	19	1	0	0	0	0	1	0	1	0	0	0	1	19	1	0	0	0	3	0	0	0	0	0
1:00:00	0	16	0	0	0	0	0	0	0	1	0	0	0	1	15	1	0	0	0	2	0	0	0	0	0
1:15:00	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	3	0	0	0	0	0
1:30:00	0	18	0	0	0	0	0	0	1	3	0	0	0	0	14	0	0	0	0	1	0	0	0	0	0
1:45:00	0	16	0	0	0	0	0	0	0	0	0	0	0	1	13	1	0	0	0	2	0	0	0	0	0
2:00:00	0	9	0	0	0	0	0	1	0	1	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0
2:15:00	0	10	0	0	0	0	0	0	0	0	0	0	0	2	10	0	0	0	0	0	0	0	0	0	0
2:30:00	0	13	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0	0	0
2:45:00	0	13	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0	1	0	0	0
3:00:00	0	10	0	0	0	0	0	0	0	0	0	0	0	2	9	1	0	0	0	1	0	0	0	0	0
3:15:00	0	13	0	0	0	0	0	0	0	3	0	0	0	1	8	1	0	0	0	0	0	0	0	0	0
3:30:00	0	16	0	0	0	0	0	0	0	1	0	0	0	1	14	0	0	0	0	0	0	0	0	0	0
3:45:00	0	19	0	0	0	0	0	0	0	1	0	0	0	1	10	1	0	0	0	0	0	0	0	0	0
4:00:00	0	15	1	0	0	0	0	0	1	0	0	0	0	1	11	0	0	0	0	1	0	0	0	0	0
4:15:00	0	33	0	0	0	0	0	0	1	2	0	0	0	1	16	1	0	0	0	1	0	0	0	0	0
4:30:00	0	62	0	0	0	0	0	0	1	1	0	0	0	1	14	1	0	0	0	3	0	0	0	0	0
4:45:00	0	54	1	0	0	0	0	0	2	3	0	0	0	3	28	1	0	0	0	1	0	0	0	0	0
5:00:00	0	37	0	0	0	0	0	1	1	2	0	0	0	2	34	2	0	0	0	2	0	0	0	0	0
5:15:00	0	44	1	0	0	0	0	1	0	3	0	0	0	3	27	2	0	0	0	3	0	0	0	0	0
5:30:00	0	101	0	0	0	0	0	0	2	3	0	0	0	3	49	3	0	0	0	3	1	0	0	0	0
5:45:00	0	105	0	0	0	0	0	1	3	8	0	0	0	7	67	7	0	0	0	5	2	1	0	0	0
6:00:00	0	95	1	0	0	0	0	1	2	7	0	0	0	8	76	4	0	0	0	5	2	1	0	0	0
6:15:00	0	113	1	1	0	0	0	3	4	8	0	0	0	12	83	6	0	0	0	4	1	1	0	0	0
6:30:00	0	156	2	1	0	0	0	1	7	17	0	0	0	17	116	14	0	0	0	7	1	2	0	0	0
6:45:00	0	136	3	0	0	0	0	3	7	20	0	0	0	21	159	21	0	0	0	9	3	3	0	0	0
7:00:00	0	139	2	0	0	0	0	3	14	18	0	0	0	29	172	19	0	0	0	14	4	2	0	0	0
7:15:00	0	137	3	1	0	0	0	7	23	32	0	0	0	29	188	24	0	0	0	13	5	6	0	0	0
7:30:00	0	215	4	1	0	0	0	7	18	27	0	0	0	20	225	27	0	0	0	22	6	6	0	0	0
7:45:00	0	228	3	0	0	0	0	7	34	40	0	0	0	29	207	38	0	0	0	24	10	8	0	0	0
8:00:00	0	207	8	1	0	0	0	8	27	38	0	0	0	54	244	48	0	0	0	34	8	4	0	0	0
8:15:00	0	183	6	1	0	0	0	9	46	35	0	0	0	60	259	49	0	0	0	20	10	5	0	0	0
8:30:00	0	195	7	1	0	0	0	15	35	38	0	0	0	54	264	51	0	0	0	29	8	8	0	0	0
8:45:00	0	158	6	1	0	0	0	10	42	34	0	0	0	56	258	43	0	0	0	23	11	12	0	0	0
9:00:00	0	149	6	3	0	0	0	11	34	30	0	0	0	66	247	39	0	0	0	20	11	8	0	0	0
9:15:00	0	136	4	2	0	0	0	9	30	36	0	0	0	52	217	31	0	0	0	23	14	13	0	0	0
9:30:00	0	144	6	2	0	0	0	11	24	37	0	0	0	45	210	29	0	0	0	23	13	13	0	0	0
9:45:00	0	155	9	1	0	0	0	13	31	38	0	0	0	65	222	27	0	0	0	28	20	12	0	0	0
10:00:00	0	159	8	2	0	0	0	16	18	46	0	0	0	63	194	32	0	0	0	27	19	21	0	0	0
10:15:00	0	151	8	3	0	0	0	18	16	43	0	0	0	46	218	27	0	0	0	28	16	17	0	0	0
10:30:00	0	144	8	2	0	0	0	19	19	52	0	0	0	54	207	25	0	0	0	33	15	18	0	0	0
10:45:00	0	173	7	3	0	0	0	16	23	51	0	0	0	67	230	29	0	0	0	33	17	15	0	0	0
11:00:00	0	171	9	4	0	0	0	16	17	48	0	0	0	58	206	21	0	0	0	32	21	16	0	0	0
11:15:00	0	178	10	2	0	0	0	19	20	48	0	0	0	64	218	24	0	0	0	35	24	22	0	0	0
11:30:00	0	172	8	3	0	0	0	18	24	55	0	0	0	66	221	27	0	0	0	41	24	21	0	0	0
11:45:00	0	183	8	4	0	0	0	21	26	62	0	0	0												

APPENDIX B: TRANSIT DATA

DAY_OF_WEEK	UNIQUE_STOP_NUMBER	STOP_NAME	ROUTE	ON	OFF	TOTAL	LAT	LONG	MONTH
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	11	7	18	38.555114	-121.411040	JAN
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.565075	-121.409228	JAN
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	1	2	38.565797	-121.408840	JAN
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	5	9	38.569573	-121.408263	JAN
WEEKDAY	09915	POWER INN LRT & POWER IN	26	0	0	0	38.546280	-121.407750	JAN
WEEKDAY	09915	POWER INN LRT & POWER INN RD	26	154	162	316	38.547001	-121.407632	JAN
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	11	9	20	38.555114	-121.411039	FEB
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	2	38.565073	-121.409228	FEB
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	0	1	38.566632	-121.408715	FEB
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	0	2	2	38.569481	-121.407216	FEB
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	13	11	24	38.554896	-121.411148	MAR
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	1	0	2	38.564642	-121.409199	MAR
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	0	4	4	38.566230	-121.408882	MAR
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	4	8	38.569651	-121.407565	MAR
WEEKDAY	09915	POWER INN LRT & POWER IN	26	0	0	0	38.547310	-121.408500	MAR
WEEKDAY	09915	POWER INN LRT & POWER INN RD	26	47	51	98	38.547042	-121.407618	MAR
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	13	8	21	38.554888	-121.411179	APR
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564605	-121.409205	APR
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	0	2	2	38.566198	-121.408889	APR
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	8	38.569688	-121.407904	APR
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	17	11	28	38.554879	-121.411182	MAY
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	2	4	38.564616	-121.409204	MAY
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	4	38.566180	-121.408892	MAY
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	6	9	38.569678	-121.407904	MAY
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	18	11	29	38.554886	-121.411186	JUN
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	2	4	38.564630	-121.409201	JUN
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	2	3	4	38.566127	-121.408889	JUN
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	4	7	10	38.569682	-121.407965	JUN
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	16	42	38.554881	-121.411199	AUG
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564589	-121.409202	AUG
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	3	38.566196	-121.408893	AUG
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	7	38.569684	-121.407890	AUG
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	15	42	38.554914	-121.411156	AUG
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	4	2	5	38.564552	-121.409209	AUG
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	2	2	3	38.566201	-121.408891	AUG
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	8	11	38.569686	-121.407850	AUG
WEEKDAY	01541	COLLEGE TOWNE DR & LA RIVIER	26	27	16	42	38.554881	-121.411199	JUL
WEEKDAY	01542	HOWE AVE & SWARTHMORE DR	26	2	1	3	38.564589	-121.409202	JUL
WEEKDAY	01545	HOWE AVE & SWARTHMORE DR	26	1	2	3	38.566196	-121.408893	JUL
WEEKDAY	01546	AMERICAN RIVER DR & HOWE AVE	26	3	5	7	38.569684	-121.407890	JUL

APPENDIX C: SIGNAL TIMING WORKSHEETS



ECONOLITE ASC/2

TRAFFIC SIGNAL CONTROL PROGRAM CHART

N/S Howe Avenue E/W College Town/WB 50

Intersection #: 270

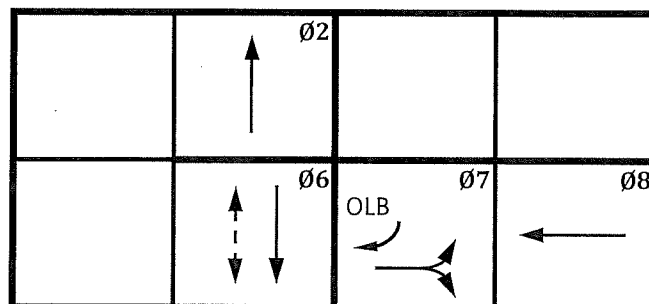
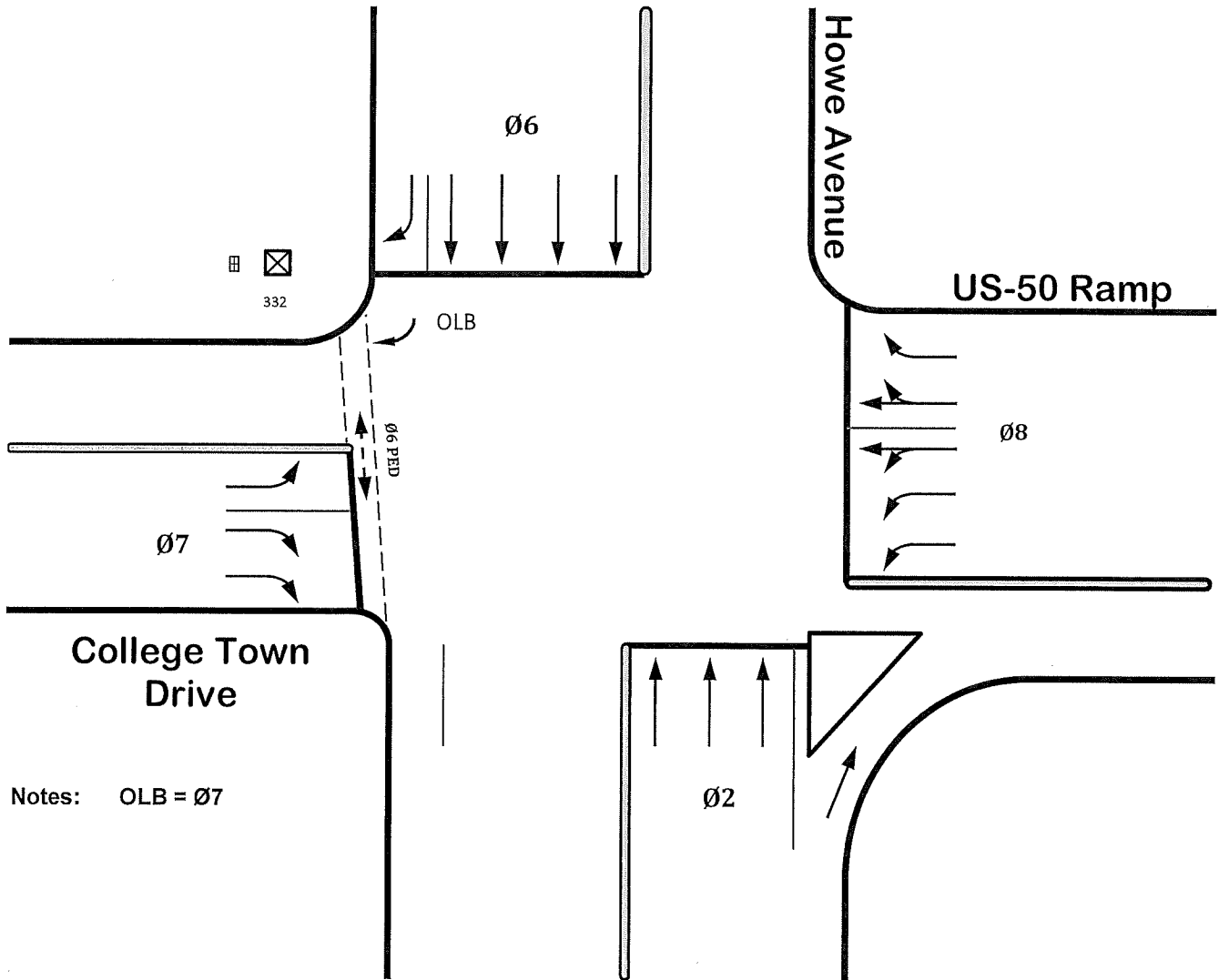
System: _____

IP Address: _____

Device ID: _____

Channel: _____

Drop #: _____



CITY OF SACRAMENTO

PHASE TIMING

Prepared by: GelApproved by: [Signature]Date Implemented: 5-29-19

Controller Timing Data

Key: (F1)-2-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Min Green		9				9	13	12				
Bike Green												
CndSrv MinGrn												
Walk						7						
Ped Clr						20						
Veh Ext		3.0				3.0	2.0	2.0				
Veh Ext 2												
Max Ext												
Max1		50				50	40	40				
Max2												
Max3												
Det Max												
Yellow		5.0				5.0	3.9	3.9				
Red Clr		0.7				0.7	1.5	1.0				
Red Rvt		2.0				2.0	2.0	2.0				
Act B4 Init												
Sec/Actuation												
Max Initial												
Time B4 Reduct												
Cars Wt												
Time To Reduce												
Min Gap												

Controller Option Data

Key: (F1)-2-9

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Guar Passage												
NonActuated I												
NonActuated II												
Dual Entry		2				6						
Cond Service												
Cond Reservice												
Rest in Walk												
Flashing Walk												
Five Section Left	5-2:				7-4:				1-6:			
Turn Heads	3-8:				11-10:				9-12:			
Dual Entry	ON		Backup Protection Grp 1		OFF							
Cond Service Enable	OFF		Backup Protection Grp 2		OFF							
Cond Service Det X Switch	OFF		Backup Protection Grp 3		OFF							
Ped Clr Protect	ON		Simul Gap Grp 1		OFF							
Spec Pre OVL Flash	OFF		Simul Gap Grp 2		OFF							
Lock Det in Red	OFF		Simul Gap Grp 3		OFF							
Reserved	OFF		unitBackup Time		OFF							
Reserved	OFF		unitRed Revert		OFF							

Controller Recall Data

Key: (F1)-2-4

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Locking Memory												
Vehicle Recall												
Ped Recall												
Recall to Max												
Soft Recall		2				6						
Don't Rest Here												
Ped Dark N/Call												

Controller Start/Flash Data

Key: (F1)-2-6

Phase	1	2	3	4	5	6	7	8	9	10	11	12
ø's Startup		2				6						
Entry Rem Flash		2				6						
Exit Rem Flash		2				6						
Rem Flash Yello												
Flsh Together ø	.	2	.	4	.	6	.	8	.	10	.	12
Flsh Tgther OV	A:	.	B:	.	C:	.	D:	.				
Startup Intvl Rng1	Yellow											
Startup Intvl Rng2	Yellow											
Power Start All Red	6 sec											
Power Start Flash												
Remote Flash Options												
Out of Flash Yellow	Yes											
Out of Flash All Red	No											
Minimum Recall	Yes											
Spare	No											
Flash Thru Ld Switch	No											
Cycle Thru Phases	No											

CONFIGURATION

Controller Sequence

Key: (F1)-1-1

Priority	1	2	3	4	5	6	7	8	9	10	11	12
Ring 1	1	2	3	4	9	10	0	0	0	0	0	0
Ring 2	5	6	7	8	11	12	0	0	0	0	0	0
CG Barrier	.	^	.	^	.	^	.	.	.	.	.	.

Phases in Use

Key: (F1)-1-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Phases in Use	.	2	.	.	.	6	7	8	.	.	.	.
Exclusive Ped

SDLC Options

Key: (F1)-1-4

BIU Number	1	2	3	4	5	6	7	8
Term & Facil								
Detector Rack								
Type 2 Runs as Type 1	.							
MMU Disable		X						
Diagnostic Enable	.							
Peer to Peer Enable	.							
Peer to Peer Addresses								
1) 255	2) 255	3) 255	4) 255	5) 255				
6) 255	7) 255	8) 255	9) 255	10) 255				

NEW CONTROLLER SHOULD BE DEFAULTED BEFORE INSTALLATION

To Default Controller: (F1)-8-2 Select All Press ENTER

(F1)-8-1-3 Select All Press ENTER

Ped Timing Carryover

Key: (F1)-2-3	
Phase	Carryover
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0

Port 2

Key: (F1)-1-5

Port 2 Protocol	TERMNL
Port 2 Enable	NO
Data Rate (bps)	9600
Data, Parity, Stop	8, N, 1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Sgl Flg Enab	NO
NTCIP BackUp Tim	0
NTCIP Drop-Out Time	0
Port2 Drop-Out Tim	0
NTCIP RTS Timing	NO
NTCIP RTS to CTS Delay	0
NTCIP RTS TurnOff Delay	0
NTCIP Early RTS	NO

Port 3

Key: (F1)-1-6

Port 3 Protocol	TELEM
Port 3 Enable	YES
Port 3 millisec Timing	NO
Port 3 RTS to CTS Delay	0
Port 3 RTS TurnOff Delay	0
Duplex -Half or Full	FULL
Modem Data Rate (bps)	1200
Data, Parity, Stop	8, N, 1
Telemetry Address	1
System Detector 9-16 Add	
Telemetry Response Delay	1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Single Flag Enable	NO
NTCIP BackUp Time	0
Port 3 Drop-Out Time	0
NTCIP Early RTS	NO

Options

Key: (F1)-1-8

Supervisor Access Code	0
Data Change Access Code	0
Key Click Enable	NO
Backlight Enable	YES
Request Download	NO

CITY OF SACRAMENTO

OVERLAP TABLES

Phase Overlap Assignments

Key: (F1)-2-2

OVL Phase	Overlap Consists of Phases											
	1	2	3	4	5	6	7	8	9	10	11	12
1	X											
2		X										
3			X									
4				X								
5					X							
6						X						
7							X					
8								X				
9									X			
10										X		
11											X	
12												X

Ped Overlap Assignments

Key: (F1)-2-5

OVL Phase	Overlap Consists of Phases											
	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Controller Overlap Data

Key: (F1)-2-5

OverLap A	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Green Timer												
Lag / Lead Green Timer												
Lag / Lead Yellow Timer												
Lag / Lead Red Timer												

OverLap B	1	2	3	4	5	6	7	8	9	10	11	12
Standard							7					
Protected							7					
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Green Timer												
Lag / Lead Green Timer												
Lag / Lead Yellow Timer					3.9							
Lag / Lead Red Timer												

OverLap C	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Green Timer												
Lag / Lead Green Timer												
Lag / Lead Yellow Timer												
Lag / Lead Red Timer												

OverLap D	1	2	3	4	5	6	7	8	9	10	11	12
Standard												
Protected												
Permitted												
Enable Lag												
Enable Lead												
Spare												
Advance Green Timer												
Lag / Lead Green Timer												
Lag / Lead Yellow Timer												
Lag / Lead Red Timer												

CITY OF SACRAMENTO

COORDINATION PATTERN TABLES

Coordination Pattern Data

Key: (F1)-3-4

PLAN FORMAT													
Cycle Length		120		Plan		1							
Offset		99											
SPLITS:	1)		2)	38	3)		4)						
	5)		6)	38	7)	19	8)	53					
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive			[1]				[2]						
Veh Perm 2 Disp													
Phase Reservice			.										
Split Extension/Ring			[1]				[2]						
Splt Demand Pattern			[1]				[2]						
Xartery Pattern													
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases			2				6						
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence		A:	.	B:	.	C:	.	D:	X	E:	.	F:	.

PLAN FORMAT													
Cycle Length		130		Plan		2							
Offset		99											
SPLITS:	1)		2)	82	3)		4)						
	5)		6)	82	7)	25	8)	23					
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive		[1]	10		[2]	10							
Veh Perm 2 Disp													
Phase Reservice		.											
Split Extension/Ring		[1]			[2]								
Splt Demand Pattern		[1]			[2]								
Xartery Pattern													
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases			2				6						
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence		A:	.	B:	.	C:	.	D:	.	E:	.	F:	.

PLAN FORMAT													
Cycle Length		130		Plan		3							
Offset		111											
SPLITS:	1)		2)	S2	3)		4)						
	5)		6)	S2	7)	30	8)	48					
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive			[1]				[2]						
Veh Perm 2 Disp													
Phase Reservice			.										
Split Extension/Ring			[1]				[2]						
Splt Demand Pattern			[1]				[2]						
Xartery Pattern													
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases			2				6						
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence													

Alt Sequence: A=switch Ø1 & Ø2 C=switch Ø5 & Ø6
 B=switch Ø3 & Ø4 D=switch Ø7 & Ø8

PLAN FORMAT													
Cycle Length					Plan		4						
Offset													
SPLITS:	1)		2)		3)		4)						
	5)		6)		7)		8)						
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive			[1]				[2]						
Veh Perm 2 Disp													
Phase Reservice			.										
Split Extension/Ring			[1]				[2]						
Splt Demand Pattern			[1]				[2]						
Xartery Pattern													
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases													
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence		A:	⋄	B:	⋄	C:	⋄	D:	⋄	E:	⋄	F:	⋄

E=switch Ø9 & Ø10
 F=switch Ø11 & Ø12

CITY OF SACRAMENTO

COORDINATION/TIME OF DAY DATA

Coordinator Options

Key: (F1)-3-1

Split Units	SEC	Actuated Coord ϕ	X
Offset Units	SEC	Actuated Rest In Wal	.
Interconnect Format	PLAN	Inhibit Max	X
Interconnect Source	NIC	Max 2 Select	.
Resync Count	0	Multisync	.
Transition	SMOOTH	Float Force Off	.
Dwell Period	0 sec	A B C D E F	.
Free Alternate Sequence		.	.

Coord Manual and Split Demand

Key: (F1)-3-2

Manual Enable	OFF	Manual Pattern	
Split Demand	Demand 1	Demand 2	
Demand Call Time	0	0	
Demand Cycle Count	0	0	
Demand ϕ	1	2	3
Demand 1 ϕ 's	.	.	.
Demand 2 ϕ 's	.	.	.

Coord Auto Permissive Min Green

Key: (F1)-3-3

Phase	Perm Min Grn	
1	0 sec	
2	0 sec	
3	0 sec	
4	0 sec	
5	0 sec	
6	0 sec	
7	0 sec	
8	0 sec	
9	0 sec	
10	0 sec	
11	0 sec	
12	0 sec	

Clock/ Calendar Data

Key: (F1)-5-1

DATE SET:	0/0/00	Enter Date/Time
TIME SET:	0:00:00	Then Press Enter
Manual NIC Prgrm Step	0	
Manual TOD Prgrm Step	0	
Sync Reference Time	0:00	
Sync Reference	REFERENCE TIME	
Week 1 begins on 1st Sunday	.	
Disable Daylight Savings	.	
DST begins Last Sunday	.	

TOD Yearly Program

Key: (F1)-5-3

Week of Year	1	2	3	4	5	6	7	8
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	9	10	11	12	13	14	15	16
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	17	18	19	20	21	22	23	24
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	25	26	27	28	29	30	31	32
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	33	34	35	36	37	38	39	40
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	41	42	43	44	45	46	47	48
Weekly Program	1	1	1	1	1	1	1	1
Week of Year				49	50	51	52	53
Weekly Program				1	1	1	1	1

TOD Weekly Programs Key: (F1)-5-2

Week	SU	MO	TU	WE	TH	FR	SA
1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1

CITY OF SACRAMENTO

NIC Program Table

NIC Program Step

Key: (F1)-5-5

Step	Program	Time	Pattern	Override
1	1	7:00	1	
2	1	9:30	2	
3	1	14:00	3	
4	1	19:00	0	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

TOD Holiday Program

Key: (F1)-5-4

Holiday	Float / Fixed	Month	DOW/ DOM	WOM / Year	Program
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					

CITY OF SACRAMENTO

PREEMPTION TABLES

Priority Preemptor 2

Key: (F1)-4-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases						6						
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:			C:			D:		
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	SS	Duration Time							GRN	YEL	RED	
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 3

Key: (F1)-4-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases			2									
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:			C:			D:		
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	SS	Duration Time								GRN	YEL	RED
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 4

Key: (F1)-4-3

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases								8				
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:			C:			D:		
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	SS	Duration Time								GRN	YEL	RED
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 5

Key: (F1)-4-4

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases								7				
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:			C:			D:		
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	SS	Duration Time								GRN	YEL	RED
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

CITY OF SACRAMENTO

DETECTION SCHEDULE

Howe Avenue at College Town Dr/Highway 50 EB offramp

	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function			
					Extend	Delay	Passage	Notes
BIU 1	Loops or Retrofit Video							
	Ø1	1						
	Ø2	2	Front	NB			x	
	Ø3	3						
	Ø4	4						
	Ø5	5						
	Ø6	6	Front	SB			x	
	Ø7	7	Front	EB			x	
	Ø8	8	Front	WB			x	
	Loops							
	Ø1	9						
	Ø2	10						
	Ø3	11						
	Ø4	12						
	Ø5	13						
	Ø6	14						
	Ø7	15						
	Ø8	16						
New Video Detection BIU 2 (RESERVED) 17-32								
BIU 3	Ø1	33						
	Ø1	34						
	Ø6	35						
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6	39						
	Ø6	40						
	Ø5	41						
	Ø5	42						
	Ø2	43						
	Ø2	44						
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48						
BIU 4	Ø3	49						
	Ø3	50						
	Ø8	51						
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
	Ø8	56						
	Ø7	57						
	Ø7	58						
	Ø4	59						
	Ø4	60						
	Ø4	61						
	Ø4	62						
	Ø4	63						
	Ø4	64						

D4

TRAFFIC SIGNAL CONTROL PROGRAM CHART

N/S Howe Ave E/W Fair Oaks Blvd

INTERSECTION: **281**

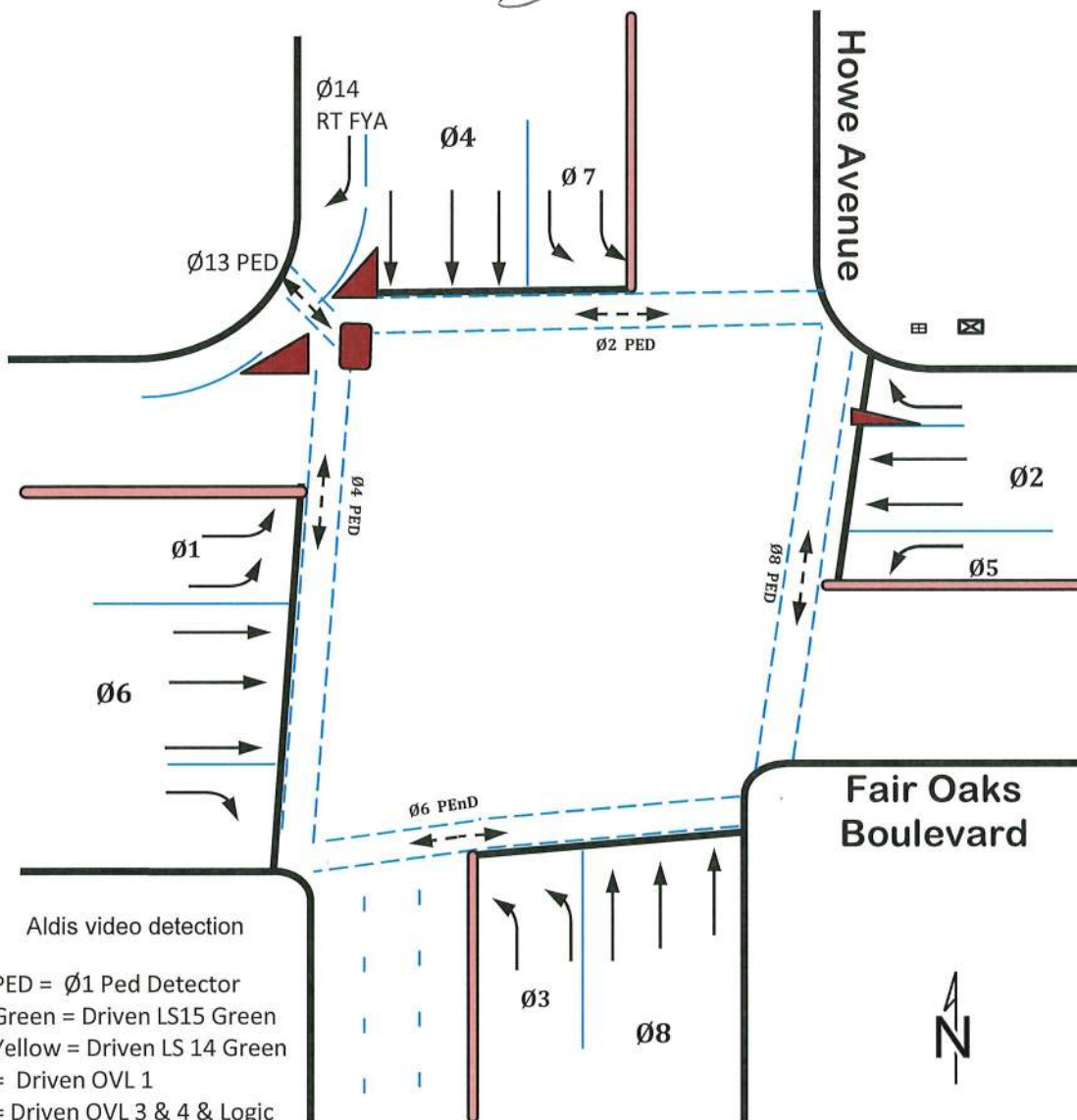
SYSTEM:

IP Address: 172.31.54.160

Prepared by: D.T.

Approved by: [Signature]

Date Implemented: 2/6/20



Notes: Aldis video detection

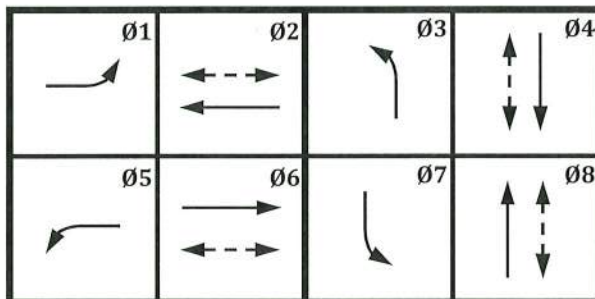
Ø13 PED = Ø1 Ped Detector

Ø14 Green = Driven LS15 Green

Ø14 Yellow = Driven LS 14 Green

Ø13 = Driven OVL 1

Ø14 = Driven OVL 3 & 4 & Logic



Ø13 PED	Ø14 YA
------------	-----------

281 - Fair oaks & Howe Ave

Phase Timing

2/6/2020 2:33:54 PM

[illegible]

281 - Fair oaks & Howe Ave

Phase Options

2/6/2020 2:33:54 PM

Phases	1-8								9-16							
Min Recalls				4				8					4			
Max Recalls																
Ped Recalls																
Soft Recall																
Dual Entry																
Red Rest																
Walk Rest																
Walk Expand																
Ped Recycle																
Sim Ped Term																
PC Thru Clr																
Guar Passage																
No Simult Gap	1		3		5		7									
Yel Lock																
Red Lock																
PhaseNext Lock	1	2	3	4	5	6	7	8								
No Term Call																
Cond Serv																
CS Enable																
Cond Reserve																
Reserve																
Veh Omit																
Ped Omit																
Perm Phase																
Protect Calls																
Protect Calls 2																
Flash Entry																
Flash Exit																
Flash Exit Yel																
Flash Exit Red																
Ped Scramble																
No Min Yel																
No Min Red Rev																
Max Scramble Walk																
Flash Yellow																
Flash FYA																
CNA 1																
CNA 2																

281 - Fair oaks & Howe Ave

Phase Startup Options

2/6/2020 2:33:54 PM

Startup Flash	<input type="text" value="0"/>	Mode	<input type="text" value="Red->Yel"/>
Startup All Red	<input type="text" value="6"/>	Yellow	<input type="text" value="0.0"/>

Phases	1-8					9-16									
Startup Phases	<input type="text" value="2"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="6"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup Yellow	<input type="text" value="2"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value="6"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup Red	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup No Walk	<input type="text" value="2"/>	<input type="text" value="4"/>	<input type="text" value="6"/>	<input type="text" value="8"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup Next	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup Yel Fls	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Startup FYA	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
No Veh Call	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
No Ped Call	<input type="text" value="2"/>	<input type="text" value="4"/>	<input type="text" value="6"/>	<input type="text" value="8"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Unit

Red Revert	<input type="text" value="2.0"/>	Ped Protect	<input type="text" value="No"/>	AdvFls in Flash	<input type="text" value="No"/>
------------	----------------------------------	-------------	---------------------------------	-----------------	---------------------------------

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Ring Sequence / Conflicting Phases

2/6/2020 2:33:54 PM

Ringgroup 1

[illegible]

Ringgroup 2

[illegible]

Custom Sequences

[illegible]

Conflicting Phases

1-8

9-16

	Phase 1					Phase 2				
Phase 1										
Phase 2										
Phase 3										
Phase 4										
Phase 5										
Phase 6										
Phase 7										
Phase 8										
Phase 9										
Phase 10										
Phase 11										
Phase 12										
Phase 13										
Phase 14										
Phase 15										
Phase 16										

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FYA/FRA

2/6/2020 2:33:54 PM

FYA	1	2	3	4	5	6	7	8
Prot Phs	0	0	0	0	0	0	0	0
Opp Thru	0	0	0	0	0	0	0	0
Start Phs	0	0	0	0	0	0	0	0
Opp Ped	0	0	0	0	0	0	0	0
Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min FYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Skip Prot Red	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Head Mode	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1

Ped Hawk 1

Veh Phase	0		
Ped Phase	0		
Flash Yel	0.0	Dark Signal	Yes
Flash Delay	0.0	Flash Carryover	0.0
Green Mode	Normal		

Ped Hawk 2

Veh Phase	0		
Ped Phase	0		
Flash Yel	0.0	Dark Signal	Yes
Flash Delay	0.0	Flash Carryover	0.0
Green Mode	Normal		

Ped Hawk 3

Veh Phase	0		
Ped Phase	0		
Flash Yel	0.0	Dark Signal	Yes
Flash Delay	0.0	Flash Carryover	0.0
Green Mode	Normal		

Ped Hawk 4

Veh Phase	0		
Ped Phase	0		
Flash Yel	0.0	Dark Signal	Yes
Flash Delay	0.0	Flash Carryover	0.0
Green Mode	Normal		

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Overlap 1

2/6/2020 2:33:54 PM

Min Green Trail Green Trail Green 2 Delay Green
 Yellow Red Red Revert
 Walk Ped Clearance Solid DW Early Wlk Delay Wlk

Phases	1-8	9-16
Parents		3
Negative Green		4
Start Next		
Trail Enable		
Trail Ena Next		
Trail Ena 2		
Trail Next 2		
Delay Enable		
Negative Veh		
Negative Ped		
Negative Olap	3 4	
Walk Rest		
Walk Thru		
Walk Halt		
Ped Recycle		
Overlap Start		
Overlap Ped Start		
Phase Calls		

Pmt Green Walk Ped Clr
 PP Phase PP Delay
 Min FR FR Hold FR Delay
 LRV Start Enable
 LRV Enable

Phases	1-8	9-16
Perm Phases		
Prot Phases		
FR Ena Phases		
FR Grn Phases		
FR Ped Conf		
FR OLPed Conf		

Overlap 3

Min Green Trail Green Trail Green 2 Delay Green
 Yellow Red Red Revert
 Walk Ped Clearance Solid DW Early Wlk Delay Wlk

Phases	1-8	9-16
Parents	1 3 5 6 7 8	
Negative Green	4	
Start Next		
Trail Enable		
Trail Ena Next		
Trail Ena 2		
Trail Next 2		
Delay Enable		
Negative Veh	2	3
Negative Ped		
Negative Olap	1 4	
Walk Rest		
Walk Thru		
Walk Halt		
Ped Recycle		
Overlap Start		
Overlap Ped Start		
Phase Calls		

Pmt Green Walk Ped Clr
 PP Phase PP Delay
 Min FR FR Hold FR Delay
 LRV Start Enable
 LRV Enable

Phases	1-8	9-16
Perm Phases		
Prot Phases		
FR Ena Phases		
FR Grn Phases		
FR Ped Conf		
FR OLPed Conf		

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Overlap 4

2/6/2020 2:33:54 PM

Min Green	0.0	Trail Green	0.0	Trail Green 2	0.0	Delay Green	0.0
Yellow	0.0	Red	0.0	Red Revert	0.0		
Walk	0	Ped Clearance	0	Solid DW	0.0	Early Wlk	0.0
						Delay Wlk	0.0

[illegible][illegible]

Phases	1-8					9-16				
Perm Phases										
Prot Phases										
FR Ena Phases										
FR Grn Phases										
FR Ped Conf										
FR OLPed Conf										

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Overlap Startup Options

2/6/2020 2:33:54 PM

Overlaps

1-8

9-16

Startup Overlap Green

Startup Overlap Yellow

Overlap Startup Timing

Overlap	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlap Unit Options

Overlaps

1-8

9-16

Overlap Ped Recalls

MCE Olap Ped Protect

MCE Olap Ped Calls

MCE Olap Ped Expand

No Min Yellow

No Min Red Rev

Flash Yellow

No Conflict

Pre Signal

Perm Red

Perm FYA

Perm FRA

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Coordination Options

2/6/2020 2:33:54 PM

[illegible]

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Hardwire Plans

2/6/2020 2:33:54 PM

Hardwire	Plan Select	Pattern	Offset	Mode
Plan 1		0	0	Hardwire
Plan 2		0	0	Hardwire
Plan 3		0	0	Hardwire
Plan 4		0	0	Hardwire
Plan 5		0	0	Hardwire
Plan 6		0	0	Hardwire
Plan 7		0	0	Hardwire
Plan 8		0	0	Hardwire
Plan 9		0	0	Hardwire
Plan 10		0	0	Hardwire
Plan 11		0	0	Hardwire
Plan 12		0	0	Hardwire
Plan 13		0	0	Hardwire
Plan 14		0	0	Hardwire
Plan 15		0	0	Hardwire
Plan 16		0	0	Hardwire
Plan 17		0	0	Hardwire
Plan 18		0	0	Hardwire
Plan 19		0	0	Hardwire
Plan 20		0	0	Hardwire
Plan 21		0	0	Hardwire
Plan 22		0	0	Hardwire
Plan 23		0	0	Hardwire
Plan 24		0	0	Hardwire
Plan 25		0	0	Hardwire
Plan 26		0	0	Hardwire
Plan 27		0	0	Hardwire
Plan 28		0	0	Hardwire
Plan 29		0	0	Hardwire
Plan 30		0	0	Hardwire
Plan 31		0	0	Hardwire
Plan 32		0	0	Hardwire

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Soft Interconnect

2/6/2020 2:33:54 PM

Mode	Slave
------	-------

Remote Int Number	0
-------------------	---

Yield Delay	0
-------------	---

Yield Duration	0
----------------	---

Permissive	0
------------	---

Local Hold Limit	0
------------------	---

Phases

1-8

9-16

Local Control Phases

Local Hold Phases

Local Perm Phases

Local Call Phases

Remote Perm Phases

Remote Hold Phases

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Coordination Pattern 1

2/6/2020 2:33:54 PM

Cycle Ringgroup 1 - Offset 1 Offset 2 Offset 3

Ringgroup 2 - Offset 1 Offset 2 Offset 3

[illegible]

Permissive Mode	Sing Band	Max Mode	Max Inh	Walk Rest	Yield
-----------------	-----------	----------	---------	-----------	-------

Ped Permissive	Yield
----------------	-------

Permissive Limit	0
------------------	---

Perm 2 Start

0

Perm 2 End

0

Alt Sequence

		3				
--	--	---	--	--	--	--

TOD Link	0
----------	---

Phases/Overlaps	1-8				9-16			
Coord Phases			4		8			
No Extend								
Float Enable								
Veh = Ped Perm								
Walk Rest								
Ped Recall								
Cond Ped Call								
Olap Ped Recall								
Ped Recycle								
Min Recall							4	
Max Recall								
Cond Serv								
Reservice								
Veh Omit								
Ped Omit								
Olap Omit								
Perm Reserve								
Perm 1 Phases								
Max Inhibit								
FYA Omit								
Adapt Phases								

Trans Mode	Default
------------	---------

Offset Ref	Default
------------	---------

Adaptive Mode	Enabled
---------------	---------

Disable Priority

--	--	--	--	--	--	--	--

[illegible]Priority Alt Seq

--	--	--	--	--	--	--	--

Reserve Extend							
----------------	--	--	--	--	--	--	--

[illegible]

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Coordination Pattern 1

2/6/2020 2:33:54 PM

[illegible]

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Coordination Pattern 2

2/6/2020 2:33:54 PM

[illegible]

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Coordination Pattern 3

2/6/2020 2:33:54 PM

Cycle	130	Ringgroup 1 - Offset 1	80	Offset 2	0	Offset 3	0
		Ringgroup 2 - Offset 1	0	Offset 2	0	Offset 3	0

[illegible]

Diagram illustrating the Mode Register (MR) layout (32 bits):

- Permissive Mode (Bits 31-24):**
 - Reservice (Bits 31-28)
 - Ped Permissive (Bits 27-24)
 - Permissive Limit (Bits 23-20)
 - Alt Sequence (Bits 19-16)
- Max Mode (Bits 23-16):**
 - Max Inh (Bits 23-16)
 - Perm 2 Start (Bits 15-12)
- Walk Rest (Bits 15-8):**
 - Yield (Bits 15-8)
 - Perm 2 End (Bits 7-4)
- TOD Link (Bits 3-0):** 4-bit field.

Phases/Overlaps	1-8				9-16				
Coord Phases			4		8				
No Extend									
Float Enable									
Veh = Ped Perm									
Walk Rest									
Ped Recall									
Cond Ped Call									
Olap Ped Recall									
Ped Recycle									
Min Recall									
Max Recall									
Cond Serv									
Reservice									
Veh Omit									
Ped Omit									
Olap Omit									
Perm Reserve									
Perm 1 Phases									
Max Inhibit									
FYA Omit									
Adapt Phases									

Trans Mode	Default
Offset Ref	Default
Adaptive Mode	Enabled

Disable Priority															
Progression Phases															
Priority Alt Seq															
Reserve Extend															

[illegible]

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Coordination Pattern 3

2/6/2020 2:33:54 PM

[illegible]

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Preempt Inputs

2/6/2020 2:33:54 PM

Preempt Input	1	2	3	4	5	6	7	8	9	10
Delay	0	0	0	0	0	0	0	0	0	0
Checkout Limit	0	0	0	0	0	0	0	0	0	0
Locked	No	No	No	No	No	No	No	No	No	No
Interlock	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Input Number	0	0	3	4	5	6	3	4	5	6
Input Priority	All	All	High	High	High	High	Low	Low	Low	Low
Delay Mode	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp

Preempt Priority

Preempt	1	2	3	4	5	6	7	8	9	10
Priority	0	0	0	0	0	0	0	0	0	0

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis	Dis	Dis	Dis	Dis	Dis	Dis	Dis
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

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Preempt 3 (Configuration)

2/6/2020 2:33:54 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16
Enable Phases	<input type="text" value=""/>	<input type="text" value=""/>
Preempt Inputs	<input type="text" value="3"/>	<input type="text" value=""/>

LRV Disable	<input type="text" value=""/>	Max	<input type="text" value="0"/>
LRV Dwell Flash	<input type="text" value=""/>		
LRV Omit	<input type="text" value=""/>	Delay	<input type="text" value="0"/>
LRV No Yel	<input type="text" value=""/>		

Preempt 3 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16
Omit Olap Grn Clr	<input type="text" value=""/>	<input type="text" value=""/>
Phs EWlk to Grn	<input type="text" value=""/>	<input type="text" value=""/>
TClr 1 Veh Phases	<input type="text" value=""/>	<input type="text" value=""/>
TClr 1 Ped Phases	<input type="text" value=""/>	<input type="text" value=""/>
TClr 1 Olap	<input type="text" value=""/>	<input type="text" value=""/>
TClr 1 Olap Ped	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 Veh Phases	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 Ped Phases	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 Olap	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 Olap Ped	<input type="text" value=""/>	<input type="text" value=""/>
Init Dwell Phases	<input type="text" value=""/>	<input type="text" value=""/>
Dwell Veh Phases	<input type="text" value="1"/>	<input type="text" value="6"/>
Dwell Ped Phases	<input type="text" value=""/>	<input type="text" value=""/>
Dwell Olap	<input type="text" value=""/>	<input type="text" value=""/>
Dwell Olap Ped	<input type="text" value=""/>	<input type="text" value=""/>
Exit Veh Phases	<input type="text" value=""/>	<input type="text" value=""/>
Exit Ped Phases	<input type="text" value=""/>	<input type="text" value=""/>
Exit Olap	<input type="text" value=""/>	<input type="text" value=""/>
Exit Olap Ped	<input type="text" value=""/>	<input type="text" value=""/>
Zero Phase Walk	<input type="text" value=""/>	<input type="text" value=""/>
Zero Phase Ped Clr	<input type="text" value=""/>	<input type="text" value=""/>
Zero Phase Green	<input type="text" value=""/>	<input type="text" value=""/>
Zero Olap Walk	<input type="text" value=""/>	<input type="text" value=""/>
Zero Olap Ped Clr	<input type="text" value=""/>	<input type="text" value=""/>
Zero Olap Green	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Phase Red	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Phase Red Flash	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Phase Yel Flash	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Olap Red Flash	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Olap Yel Flash	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Ped Dark	<input type="text" value=""/>	<input type="text" value=""/>
Dwell-Olap Ped Dark	<input type="text" value=""/>	<input type="text" value=""/>

Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
		Start Ped Clr	<input type="text" value="0"/>
Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
Exit Red	<input type="text" value="0.0"/>		
Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
Dwell Extend	<input type="text" value="2"/>		
Max Dwell	<input type="text" value="0"/>	Max Call	<input type="text" value="85"/>
Reserve Inh Same	<input type="text" value="0"/>		
Reserve Inh All	<input type="text" value="0"/>		
Delay	<input type="text" value="0"/>		

Phases/Overlaps	1-8	9-16
TClr 1 FR Olap	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 FR Olap	<input type="text" value=""/>	<input type="text" value=""/>
Dwell FR Olap	<input type="text" value=""/>	<input type="text" value=""/>
TClr 1 FYA	<input type="text" value=""/>	<input type="text" value=""/>
TClr 2 FYA	<input type="text" value=""/>	<input type="text" value=""/>
Dwell FYA	<input type="text" value=""/>	<input type="text" value=""/>

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Preempt 4 (Configuration)

2/6/2020 2:33:54 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

Enable Phases	1-8	9-16	LRV Disable	1-8	Max	<input type="text" value="0"/>
Preempt Inputs	<input type="text" value="4"/>		LRV Dwell Flash			
			LRV Omit		Delay	<input type="text" value="0"/>
			LRV No Yel			

Preempt 4 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr			Track Clear 1	<input type="text" value="0"/>	Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn			TC1 Extend	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Veh Phases			Exit Ped Clr	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TC1r 1 Ped Phases			Exit Red	<input type="text" value="0.0"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 1 Olap			Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
TC1r 1 Olap Ped			Dwell Extend	<input type="text" value="2"/>	Max Dwell	<input type="text" value="0"/>
TC1r 2 Veh Phases			Max Dwell	<input type="text" value="0"/>	Max Call	<input type="text" value="85"/>
TC1r 2 Ped Phases			Reserve Inh Same	<input type="text" value="0"/>		
TC1r 2 Olap			Reserve Inh All	<input type="text" value="0"/>		
TC1r 2 Olap Ped			Delay	<input type="text" value="0"/>		
Init Dwell Phases			Phases/Overlaps	1-8	9-16	
Dwell Veh Phases	<input type="text" value="2"/>	<input type="text" value="5"/>	TC1r 1 FR Olap			
Dwell Ped Phases			TC1r 2 FR Olap			
Dwell Olap			Dwell FR Olap			
Dwell Olap Ped			TC1r 1 FYA			
Exit Veh Phases			TC1r 2 FYA			
Exit Ped Phases			Dwell FYA			
Exit Olap						
Exit Olap Ped						
Zero Phase Walk						
Zero Phase Ped Clr						
Zero Phase Green						
Zero Olap Walk						
Zero Olap Ped Clr						
Zero Olap Green						
Dwell-Phase Red						
Dwell-Phase Red Flash						
Dwell-Phase Yel Flash						
Dwell-Olap Red Flash						
Dwell-Olap Yel Flash						
Dwell-Ped Dark						
Dwell-Olap Ped Dark						

281 - Fair oaks & Howe Ave

Preempt 5 (Configuration)

2/6/2020 2:33:54 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="5"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 5 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16		
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>	Start Green	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	Start Walk	<input type="text" value="0"/>
TC1r 1 Veh Phases	<input type="text"/>	<input type="text"/>	Start Ped Clr	<input type="text" value="0"/>
TC1r 1 Ped Phases	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>
TC1r 1 Olap	<input type="text"/>	<input type="text"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Olap Ped	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>
TC1r 2 Veh Phases	<input type="text"/>	<input type="text"/>	TC1 Max	<input type="text" value="0"/>
TC1r 2 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>
TC1r 2 Olap	<input type="text"/>	<input type="text"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 2 Olap Ped	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="5"/>
Dwell Veh Phases	<input type="text" value="3"/>	<input type="text" value="8"/>	Min Duration	<input type="text" value="0"/>
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	Dwell Extend	<input type="text" value="2"/>
Dwell Olap	<input type="text"/>	<input type="text"/>	Max Dwell	<input type="text" value="0"/>
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	Max Call	<input type="text" value="85"/>
Exit Veh Phases	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>
Exit Ped Phases	<input type="text"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>
Exit Olap	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>
Exit Olap Ped	<input type="text"/>	<input type="text"/>		
Zero Phase Walk	<input type="text"/>	<input type="text"/>	Phases/Overlaps	1-8
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>	TC1r 1 FR Olap	<input type="text"/>
Zero Phase Green	<input type="text"/>	<input type="text"/>	TC1r 2 FR Olap	<input type="text"/>
Zero Olap Walk	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>	TC1r 1 FYA	<input type="text"/>
Zero Olap Green	<input type="text"/>	<input type="text"/>	TC1r 2 FYA	<input type="text"/>
Dwell-Phase Red	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>		
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>		
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>		
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>		
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>		
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>		

281 - Fair oaks & Howe Ave

Preempt 6 (Configuration)

2/6/2020 2:33:54 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16
Enable Phases	<input type="text"/>	<input type="text"/>
Preempt Inputs	<input type="text" value="6"/>	<input type="text"/>

LRV Disable	<input type="text"/>	Max	<input type="text" value="0"/>
LRV Dwell Flash	<input type="text"/>		
LRV Omit	<input type="text"/>	Delay	<input type="text" value="0"/>
LRV No Yel	<input type="text"/>		

Preempt 6 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>
TC1r 1 Veh Phases	<input type="text"/>	<input type="text"/>
TC1r 1 Ped Phases	<input type="text"/>	<input type="text"/>
TC1r 1 Olap	<input type="text"/>	<input type="text"/>
TC1r 1 Olap Ped	<input type="text"/>	<input type="text"/>
TC1r 2 Veh Phases	<input type="text"/>	<input type="text"/>
TC1r 2 Ped Phases	<input type="text"/>	<input type="text"/>
TC1r 2 Olap	<input type="text"/>	<input type="text"/>
TC1r 2 Olap Ped	<input type="text"/>	<input type="text"/>
Init Dwell Phases	<input type="text"/>	<input type="text"/>
Dwell Veh Phases	<input type="text" value="4"/>	<input type="text" value="7"/>
Dwell Ped Phases	<input type="text"/>	<input type="text"/>
Dwell Olap	<input type="text"/>	<input type="text"/>
Dwell Olap Ped	<input type="text"/>	<input type="text"/>
Exit Veh Phases	<input type="text"/>	<input type="text"/>
Exit Ped Phases	<input type="text"/>	<input type="text"/>
Exit Olap	<input type="text"/>	<input type="text"/>
Exit Olap Ped	<input type="text"/>	<input type="text"/>
Zero Phase Walk	<input type="text"/>	<input type="text"/>
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>
Zero Phase Green	<input type="text"/>	<input type="text"/>
Zero Olap Walk	<input type="text"/>	<input type="text"/>
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>
Zero Olap Green	<input type="text"/>	<input type="text"/>
Dwell-Phase Red	<input type="text"/>	<input type="text"/>
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>

Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
		Start Ped Clr	<input type="text" value="0"/>
Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
Exit Red	<input type="text" value="0.0"/>		
Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
Dwell Extend	<input type="text" value="2"/>		
Max Dwell	<input type="text" value="0"/>	Max Call	<input type="text" value="85"/>
Reserve Inh Same	<input type="text" value="0"/>		
Reserve Inh All	<input type="text" value="0"/>		
Delay	<input type="text" value="0"/>		

Phases/Overlaps	1-8	9-16
TC1r 1 FR Olap	<input type="text"/>	<input type="text"/>
TC1r 2 FR Olap	<input type="text"/>	<input type="text"/>
Dwell FR Olap	<input type="text"/>	<input type="text"/>
TC1r 1 FYA	<input type="text"/>	<input type="text"/>
TC1r 2 FYA	<input type="text"/>	<input type="text"/>
Dwell FYA	<input type="text"/>	<input type="text"/>

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TOD Pattern Events

2/6/2020 2:33:54 PM

	Time	DOW							Holidays							Mode	Pattern	Offset
Event 1	07:00	S	M	T	W	T	F	S								Free	1	1
Event 2	09:30	S	M	T	W	T	F	S								Free	2	1
Event 3	14:00	S	M	T	W	T	F	S								Free	3	1
Event 4	20:00	S	M	T	W	T	F	S								Free	0	0
Event 5	00:00															Sched	0	0
Event 6	00:00															Sched	0	0
Event 7	00:00															Sched	0	0
Event 8	00:00															Sched	0	0
Event 9	00:00															Sched	0	0
Event 10	00:00															Sched	0	0
Event 11	00:00															Sched	0	0
Event 12	00:00															Sched	0	0
Event 13	00:00															Sched	0	0
Event 14	00:00															Sched	0	0
Event 15	00:00															Sched	0	0
Event 16	00:00															Sched	0	0
Event 17	00:00															Sched	0	0
Event 18	00:00															Sched	0	0
Event 19	00:00															Sched	0	0
Event 20	00:00															Sched	0	0
Event 21	00:00															Sched	0	0
Event 22	00:00															Sched	0	0
Event 23	00:00															Sched	0	0
Event 24	00:00															Sched	0	0
Event 25	00:00															Sched	0	0
Event 26	00:00															Sched	0	0
Event 27	00:00															Sched	0	0
Event 28	00:00															Sched	0	0
Event 29	00:00															Sched	0	0
Event 30	00:00															Sched	0	0
Event 31	00:00															Sched	0	0
Event 32	00:00															Sched	0	0

281 - Fair oaks & Howe Ave

Detector Inputs (BIU 9)

2/6/2020 2:33:54 PM

	Det 1	Det 2	Det 3	Det 4	Det 5	Det 6	Det 7	Det 8
Function	None	None	None	None	VehDet	VehDet	VehDet	VehDet
Index	0	0	0	0	5	6	7	8
	Det 9	Det 10	Det 11	Det 12	Det 13	Det 14	Det 15	Det 16
Function	None	None	None	None	VehDet	VehDet	None	VehDet
Index	0	0	0	0	13	14	0	16

Detector Inputs (BIU 10)

	Det 17	Det 18	Det 19	Det 20	Det 21	Det 22	Det 23	Det 24
Function	None	None	None	None	VehDet	VehDet	VehDet	VehDet
Index	17	18	19	20	21	22	23	24
	Det 25	Det 26	Det 27	Det 28	Det 29	Det 30	Det 31	Det 32
Function	None	None	None	None	VehDet	VehDet	VehDet	VehDet
Index	25	26	27	28	29	30	31	32

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Detector Inputs (BIU 11)

2/6/2020 2:33:54 PM

Function Index	Det 33 VehDet 33	Det 34 None 0	Det 35 VehDet 35	Det 36 None 0	Det 37 None 0	Det 38 None 0	Det 39 None 0	Det 40 None 0
Function Index	Det 41 VehDet 41	Det 42 None 0	Det 43 VehDet 43	Det 44 None 0	Det 45 None 0	Det 46 None 0	Det 47 None 0	Det 48 None 0

Detector Inputs (BIU 12)

Function Index	Det 49 VehDet 49	Det 50 None 0	Det 51 VehDet 51	Det 52 None 0	Det 53 None 0	Det 54 None 0	Det 55 None 0	Det 56 None 0
Function Index	Det 57 VehDet 57	Det 58 None 0	Det 59 VehDet 59	Det 60 None 0	Det 61 None 0	Det 62 None 0	Det 63 None 0	Det 64 None 0

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T/F Inputs (BIU 1)

2/6/2020 2:33:54 PM

	I/O 14	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21
Input	Preempt	Preempt	VehDet	VehDet	None	None	ManCtrl	IntAdv
Index	1	2	57	51	0	0	5	5
	I/O 22	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5
Input	MinRec	ExtStr	None	StopTm	StopTm	VehDet	VehDet	VehDet
Index	5	5	0	5	5	33	43	49
	IN 6	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4	
Input	VehDet	VehDet	None	PedDet	PedDet	PedDet	PedDet	
Index	59	41	0	1	2	3	4	

T/F Inputs (BIU 2)

	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23
Input	Preempt	Preempt	Preempt	Preempt	VehDet	None	None	None
Index	3	4	5	6	35	0	0	0
	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7
Input	None	MaxInh	MaxInh	LocFlash	None	Alarm	Alarm	None
Index	0	1	2	1	0	1	2	0
	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4			
Input	None	PedDet	PedDet	PedDet	PedDet			
Index	0	5	6	7	8			

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T/F Inputs (BIU 3)

2/6/2020 2:33:54 PM

	I/O 7	I/O 8	I/O 9	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4		
Input	None	None	None	None	None	None		
Index	0	0	0	0	0	0		

T/F Inputs (BIU 4)

	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15	I/O 16	I/O 17
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23	I/O 24	IN 1
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	OPTO 1
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	OPTO 2	OPTO 3	OPTO 4					
Input	None	None	None					
Index	0	0	0					

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Cabinet / MMU Configuration

2/6/2020 2:33:54 PM

Cabinet Type	TS2-2N	MMU Channel Ignore	1-8	9-16
MMU Disable	No	Det BIU 1-No Fail Call	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6
		Det BIU 2-No Fail Call		
		Alt LS Flash		
		Alt Phase Flash		
		Alt Overlap Flash		
		Alt LRV Flash		

CMU Channel Ignore	1-8	9-16
	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6
	17-24	25-32
	7 8 9 0 1 2 3 4	5 6 7 8 9 0 1 2
Det IASM1-Det Diag	1-8	9-16
	17-24	
Det IASM2-Det Diag	1-8	9-16
	17-24	

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	G Fls G
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

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I/O Logic Channels

2/6/2020 2:33:54 PM

	Func1	Idx	Oper	Func2	Idx	Out1	Idx	Out2	Idx	Dly	Ext	Trig	Fls
Chan 1	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 2	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 3	Olpyel	3	Or	Olpyel	4	None	0	None	0	0	0	No	No
Chan 4	OlpyRed	3	And	OlpyRed	4	None	0	None	0	0	0	No	No
Chan 5	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 6	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 7	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 8	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 9	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 10	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 11	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 12	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 13	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 14	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 15	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 16	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 17	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 18	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 19	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 20	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 21	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 22	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 23	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 24	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 25	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 26	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 27	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 28	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 29	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 30	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 31	None	0	Or	None	0	None	0	None	0	0	0	No	No
Chan 32	None	0	Or	None	0	None	0	None	0	0	0	No	No

281 - Fair oaks & Howe Ave

Vehicle Detector 5

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Enabled
------	---------	-------	----------	--------	---------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8					9-16				
Call Phases				6						
Yellow Lock Phases										
Red Lock Phases										
Extend Phases				6						
XSwitch Phases										
Bike Call Phases										

Vehicle Detector 6

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8						9-16					
Call Phases					6							
Yellow Lock Phases												
Red Lock Phases												
Extend Phases					6							
XSwitch Phases												
Bike Call Phases												

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Vehicle Detector 7

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Enabled
------	---------	-------	----------	--------	---------

Fail Mode None Max Pres 0 No Act 0 Erratic 0 Fail Time 0

Delay 2	0.0
---------	-----

Phases	1-8					9-16				
Call Phases				6						
Yellow Lock Phases										
Red Lock Phases										
Extend Phases				6						
XSwitch Phases										
Bike Call Phases										

Vehicle Detector 8

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Enabled
------	---------	-------	----------	--------	---------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8	9-16
Call Phases		
Yellow Lock Phases		
Red Lock Phases		
Extend Phases		
XSwitch Phases		
Bike Call Phases		

281 - Fair oaks & Howe Ave

Vehicle Detector 13

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

Vehicle Detector 14

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

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Vehicle Detector 16

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

Vehicle Detector 21

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Enabled
------	---------	-------	----------	--------	---------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

0.0

[illegible]

281 - Fair oaks & Howe Ave

Vehicle Detector 22

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Enabled
------	---------	-------	----------	--------	---------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8					9-16				
Call Phases						8				
Yellow Lock Phases										
Red Lock Phases										
Extend Phases						8				
XSwitch Phases										
Bike Call Phases										

Vehicle Detector 23

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8						9-16						
Call Phases							8						
Yellow Lock Phases													
Red Lock Phases													
Extend Phases							8						
XSwitch Phases													
Bike Call Phases													

281 - Fair oaks & Howe Ave

Vehicle Detector 24

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8	9-16
Call Phases		
Yellow Lock Phases		
Red Lock Phases		
Extend Phases		
XSwitch Phases		
Bike Call Phases		

Vehicle Detector 29

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8						9-16					
Call Phases			4									
Yellow Lock Phases												
Red Lock Phases												
Extend Phases			4									
XSwitch Phases												
Bike Call Phases												

281 - Fair oaks & Howe Ave

Vehicle Detector 30

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

0.0

Phases	1-8						9-16					
Call Phases			4									
Yellow Lock Phases												
Red Lock Phases												
Extend Phases			4									
XSwitch Phases												
Bike Call Phases												

Vehicle Detector 31

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8						9-16							
Call Phases			4											
Yellow Lock Phases														
Red Lock Phases														
Extend Phases			4											
XSwitch Phases														
Bike Call Phases														

281 - Fair oaks & Howe Ave

Vehicle Detector 32

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8					9-16				
Call Phases			4							
Yellow Lock Phases										
Red Lock Phases										
Extend Phases			4							
XSwitch Phases										
Bike Call Phases										

Vehicle Detector 33

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

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Vehicle Detector 35

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

0.0

Phases	1-8					9-16					
Call Phases					6						
Yellow Lock Phases											
Red Lock Phases											
Extend Phases					6						
XSwitch Phases											
Bike Call Phases											

Vehicle Detector 41

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8					9-16					
Call Phases				5							
Yellow Lock Phases											
Red Lock Phases											
Extend Phases				5							
XSwitch Phases											
Bike Call Phases											

281 - Fair oaks & Howe Ave

Vehicle Detector 43

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

Vehicle Detector 49

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

281 - Fair oaks & Howe Ave

Vehicle Detector 51

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8						9-16						
Call Phases							8						
Yellow Lock Phases													
Red Lock Phases													
Extend Phases							8						
XSwitch Phases													
Bike Call Phases													

Vehicle Detector 57

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases	1-8					9-16				
Call Phases					7					
Yellow Lock Phases										
Red Lock Phases										
Extend Phases					7					
XSwitch Phases										
Bike Call Phases										

281 - Fair oaks & Howe Ave

Vehicle Detector 59

2/6/2020 2:33:54 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases

1-8

9-16

Call Phases			4									
Yellow Lock Phases												
Red Lock Phases												
Extend Phases			4									
XSwitch Phases												
Bike Call Phases												

281 - Fair oaks & Howe Ave

Pedestrian Detector 8

2/6/2020 2:33:54 PM

No Act	0
--------	---

Max Pres

Erratic 0

Fail Mode	None
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Phases/Overlaps

1-8

9-16

Call Ped Phases							8
-----------------	--	--	--	--	--	--	---

Call Ped Olaps							
----------------	--	--	--	--	--	--	--

Call Phases							
-------------	--	--	--	--	--	--	--

Locked Call Phases							

Ped Entry Phases							
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Olap Ped Entry Phases							
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Ped Cascade Phases							
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Call Walk2							
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281 - Fair oaks & Howe Ave

Control / Config

2/6/2020 2:33:54 PM

Pattern Mode	<input type="text" value="Central"/>	
Manual Pattern	<input type="text" value="0"/>	Manual Offset <input type="text" value="0"/>
Stop Time Input	<input type="text" value="Enabled"/>	
Aux Switch	<input type="text" value="StopTm"/>	<input type="text" value="5"/>
DLS Mode	<input type="text" value="D4"/>	Time Zone <input type="text" value="Pac (UTC-8)"/>
GPS Thresh	<input type="text" value="0"/>	
Password Timeout	<input type="text" value="5"/>	
Maint Phs Recalls	<div>1-8<div><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></div>9-16<div><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></div></div>	
Maint Ped Recalls	<div><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></div>	

Serial 1 Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
Serial Rebroadcast	<input type="text" value="Disabled"/>	Response	<input type="text" value="None"/>

Serial 2 Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
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Ethernet Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
Serial Rebroadcast	<input type="text" value="Disabled"/>		

Peer Configuration

Peer 1	<input type="text" value="0"/>
Peer 2	<input type="text" value="0"/>
Peer 3	<input type="text" value="0"/>
Peer 4	<input type="text" value="0"/>
Peer 5	<input type="text" value="0"/>
Peer 6	<input type="text" value="0"/>
Peer 7	<input type="text" value="0"/>
Peer 8	<input type="text" value="0"/>

281 - Fair oaks & Howe Ave

Logging

2/6/2020 2:33:54 PM

VO Log Period	<input type="text" value="15"/>	1 of 2 Hits (Det BIU 1)	<input type="text"/>	<input type="text"/>
Power On	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 2)	<input type="text"/>	<input type="text"/>
Ext Start	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 3)	<input type="text"/>	<input type="text"/>
Man Control	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 4)	<input type="text"/>	<input type="text"/>
Cabinet Door	<input type="text" value="Enabled"/>	SPmt 1 Req Switch	<input type="text"/>	
MMU Faults	<input type="text" value="Enabled"/>	SPmt 2 Req Switch	<input type="text"/>	
BIU Faults	<input type="text" value="Enabled"/>	SPmt 3 Req Switch	<input type="text"/>	
Det Faults	<input type="text" value="Enabled"/>	SPmt 4 Req Switch	<input type="text"/>	
Coordination	<input type="text" value="Enabled"/>	Zone 1 Req Switch	<input type="text"/>	
Preempt	<input type="text" value="Enabled"/>	Zone 2 Req Switch	<input type="text"/>	
Soft Preempt	<input type="text" value="Disabled"/>	Zone 3 Req Switch	<input type="text"/>	
Zone	<input type="text" value="Disabled"/>	Zone 4 Req Switch	<input type="text"/>	
Speed Traps	<input type="text" value="Disabled"/>	Zone 5 Req Switch	<input type="text"/>	
		Zone 6 Req Switch	<input type="text"/>	
		Zone 7 Req Switch	<input type="text"/>	
		Zone 8 Req Switch	<input type="text"/>	
		Trap Grp 1 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 2 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 3 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 4 Req Switch	<input type="text"/>	<input type="text"/>

281 - Fair oaks & Howe Ave

Restricted Data

2/6/2020 2:33:54 PM

(Serial Ports)

Serial Port 1

Baud Rate

RTS On

RTS Off

Serial Port 2

Baud Rate

RTS On

RTS Off

(Ethernet)

IP Address

Netmask

Broadcast Address

Gateway

Gateway 2

Gateway 3

Gateway 4

Admin IP

Leases

Admin Netmask

Port

Reply Mode

Broadcast Port

Response

Time Port

(General)

Controller Address

Timeout

Peer Address

Timeout

Remote Calls

Remote Preempt

Remote Soft Preempt

Remote Priority

Remote MCE

MCE Max

CITY OF SACRAMENTO

DETECTION SCHEDULE

281 - Fair Oaks at Howe Detection Summary

	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function			
					Extend	Delay	Passage	Notes
BIU 2	Ø	1						
	Ø	2						
	Ø	3						
	Ø	4						
	Ø6	5	Rear	EB			x	D1
	Ø6	6	Rear	EB			x	D2
	Ø6	7	Rear	EB			x	D3
	Ø6	8	Mid	EB			x	D4
	Ø	9						
	Ø	10						
	Ø	11						
	Ø	12						
	Ø2	13	Rear	WB			x	D1
	Ø2	14	Rear	WB			x	D2
	Ø2	15						
	Ø	16	Mid	WB			x	D3
	Ø	17						
	Ø	18						
	Ø	19						
	Ø	20						
	Ø4	21	Rear	SB			x	D1
	Ø4	22	Rear	SB			x	D2
	Ø4	23	Rear	SB			x	D3
	Ø4	24	Mid	SB			x	D4
	Ø	25						
	Ø	26						
	Ø	27						
	Ø	28						
	Ø8	29	Rear	NB			x	D1
	Ø8	30	Rear	NB			x	D2
	Ø8	31	Rear	NB			x	D3
	Ø8	32	Mid	NB			x	D4
BIU 3	Ø1	33	Left	E-N			x	Door Switch & Video
	Ø1	34						
	Ø6	35	Front	EB			x	Door Switch & Video; Disconnect
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6	39						
	Ø6	40						
	Ø5	41	Left	W-S			x	Door Switch & Video
	Ø5	42						
	Ø2	43	Front	WB			x	Door Switch & Video; Disconnect
	Ø2	44						
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48						
BIU 4	Ø3	49	Left	N-W			x	Door Switch & Video
	Ø3	50						
	Ø8	51	Front	NB			x	Door Switch & Video; Disconnect
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
	Ø8	56						
	Ø7	57	Left	S-E			x	Door Switch & Video
	Ø7	58						
	Ø4	59	Front	SB			x	Door Switch & Video; Disconnect
	Ø4	60						
	Ø4	61						
	Ø4	62						
	Ø4	63						
	Ø4	64						

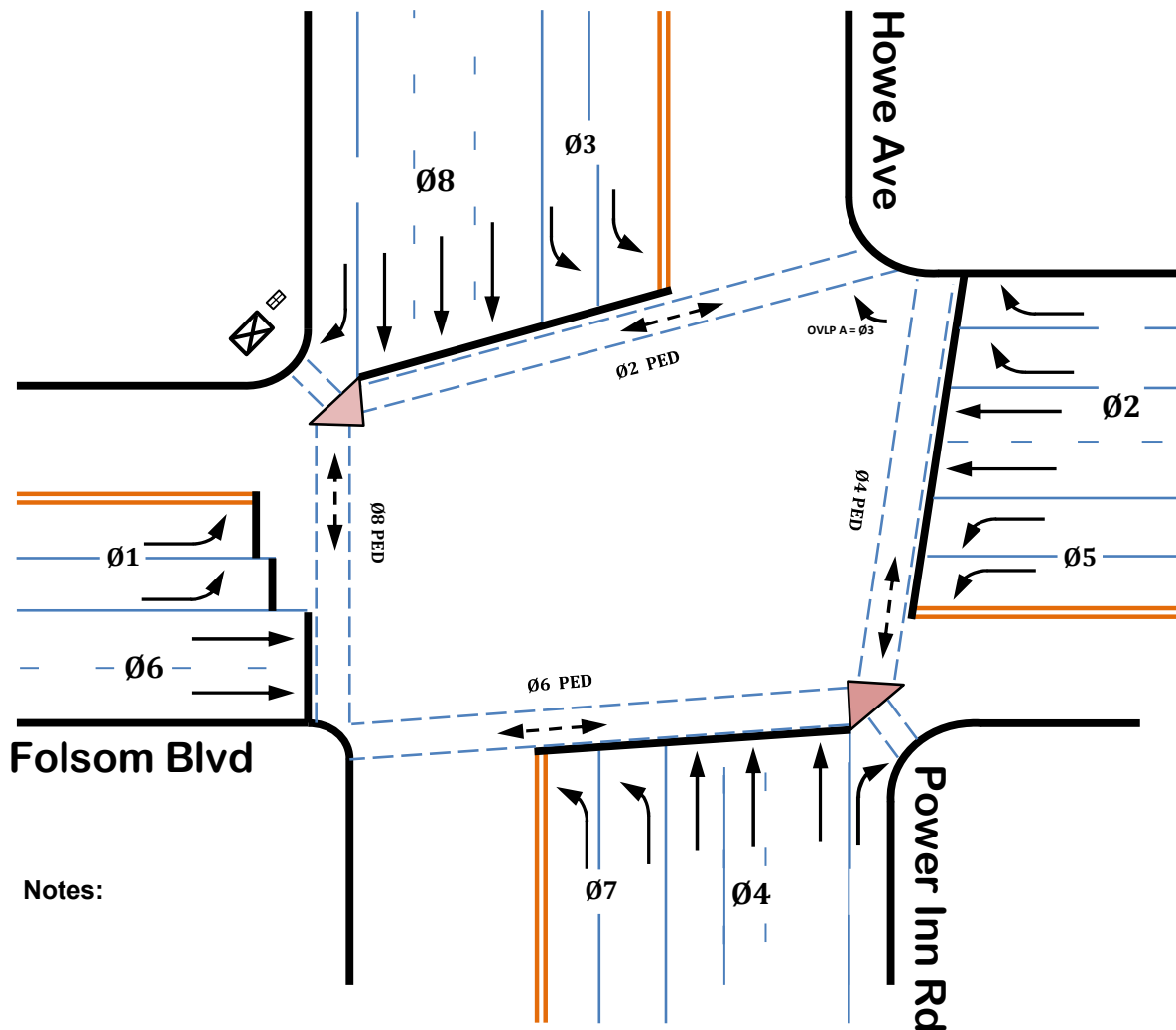
McCain D-4

TRAFFIC SIGNAL CONTROL PROGRAM CHART

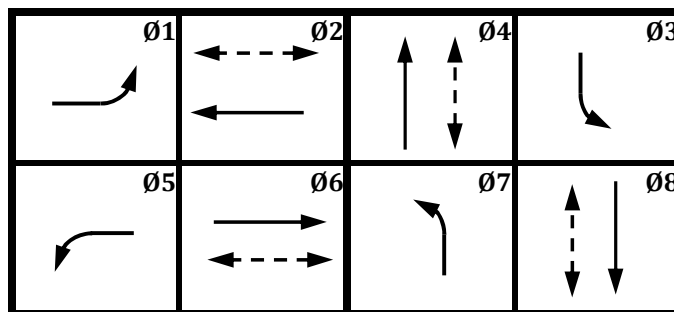
N/S Howe/Power Inn Rd **E/W** Folsom Blvd

INTERSECTION #: 324 System: _____ IP Address: _____

Prepared by: smb Approved by: Draft Date Implemented: 10/21/2020



Notes:



324 - Folsom & Power Inn

Phase Timing

10/21/2020 1:50:10 PM

[illegible]

324 - Folsom & Power Inn

Phase Startup Options

10/21/2020 1:50:10 PM

Startup Flash Mode
 Startup All Red Yellow

Phases	1-8								9-16							
Startup Phases			4				8									
Startup Yellow			4				8									
Startup Red																
Startup No Walk	2	4		6		8										
Startup Next																
Startup Yel Fls																
Startup FYA																
No Veh Call																
No Ped Call	2	4		6		8										

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Unit

Red Revert Ped Protect AdvFls in Flash

324 - Folsom & Power Inn

Ring Sequence / Conflicting Phases

10/21/2020 1:50:10 PM

Ringgroup 1

[illegible]

Ringgroup 2

Custom Sequences

[illegible]

Conflicting Phases

1-8

9-16

[illegible]

324 - Folsom & Power Inn

MCE Options

10/21/2020 1:50:10 PM

Phases

1-8

9-16

MCE Ped Protect										
MCE Veh Call										
MCE Ped Call										
MCE Veh Omit										
MCE Ped Omit										
MCE Veh Sync										
MCE Ped Sync										
MCE Halt Don't Walk										

LRV Phases

1-8

MCE LRV Term Early							
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324 - Folsom & Power Inn

FYA/FRA

10/21/2020 1:50:10 PM

FYA	1	2	3	4	5	6	7	8
Prot Phs	0	0	0	0	0	0	0	0
Opp Thru	0	0	0	0	0	0	0	0
Start Phs	0	0	0	0	0	0	0	0
Opp Ped	0	0	0	0	0	0	0	0
Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Min FYA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Skip Prot Red	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Head Mode	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1	FYA 1

Ped Hawk 1

Veh Phase

Ped Phase

Flash Yel Dark Signal

Flash Delay Flash Carryover

Green Mode

Ped Hawk 2

Veh Phase

Ped Phase

Flash Yel Dark Signal

Flash Delay Flash Carryover

Green Mode

Ped Hawk 3

Veh Phase

Ped Phase

Flash Yel Dark Signal

Flash Delay Flash Carryover

Green Mode

Ped Hawk 4

Veh Phase

Ped Phase

Flash Yel Dark Signal

Flash Delay Flash Carryover

Green Mode

324 - Folsom & Power Inn

Overlap Startup Options

10/21/2020 1:50:10 PM

Overlaps

1-8

9-16

Startup Overlap Green

Startup Overlap Yellow

Overlap Startup Timing

Overlap

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Start Walk

Start Min Green

[illegible]

Overlap Unit Options

Overlaps

1-8

9-16

[illegible]

324 - Folsom & Power Inn

Coordination Options

10/21/2020 1:50:10 PM

Sync Time

RTC Set Time

Transition Mode

Ped Adjust

Trans Short %

Trans Long %

Offset Reference

Short Cycles

Dual Entry

Overlap F/O

Master Sync Mode

Master Sync Length

Adapt Thresh

Adapt Step

External Plan Max

Hardwire No Match

Hardwire Sync Fail

Override Omit/Recall

Phases 1-8

9-16

No Trans Recall

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Trans Ped Recall

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Trans Phases

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324 - Folsom & Power Inn

Hardwire Plans

10/21/2020 1:50:10 PM

Hardwire	Plan Select							Pattern	Offset	Mode
Plan 1								0	0	Hardwire
Plan 2								0	0	Hardwire
Plan 3								0	0	Hardwire
Plan 4								0	0	Hardwire
Plan 5								0	0	Hardwire
Plan 6								0	0	Hardwire
Plan 7								0	0	Hardwire
Plan 8								0	0	Hardwire
Plan 9								0	0	Hardwire
Plan 10								0	0	Hardwire
Plan 11								0	0	Hardwire
Plan 12								0	0	Hardwire
Plan 13								0	0	Hardwire
Plan 14								0	0	Hardwire
Plan 15								0	0	Hardwire
Plan 16								0	0	Hardwire
Plan 17								0	0	Hardwire
Plan 18								0	0	Hardwire
Plan 19								0	0	Hardwire
Plan 20								0	0	Hardwire
Plan 21								0	0	Hardwire
Plan 22								0	0	Hardwire
Plan 23								0	0	Hardwire
Plan 24								0	0	Hardwire
Plan 25								0	0	Hardwire
Plan 26								0	0	Hardwire
Plan 27								0	0	Hardwire
Plan 28								0	0	Hardwire
Plan 29								0	0	Hardwire
Plan 30								0	0	Hardwire
Plan 31								0	0	Hardwire
Plan 32								0	0	Hardwire

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Soft Interconnect

10/21/2020 1:50:10 PM

Mode	Slave
------	-------

Remote Int Number 0

Yield Delay Yield Duration

Permissive	0
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Local Hold Limit 0

Phases

1-8

9-16

Local Control Phases

Local Hold Phases

Local Perm Phases

Local Call Phases

Remote Perm Phases

Remote Hold Phases

324 - Folsom & Power Inn

Preempt Inputs

10/21/2020 1:50:10 PM

Preempt Input	1	2	3	4	5	6	7	8	9	10
Delay	0	0	0	0	0	0	0	0	0	0
Checkout Limit	0	0	0	0	0	0	0	0	0	0
Locked	No	No	No	No	No	No	No	No	No	No
Interlock	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Input Number	1	2	3	4	5	6	0	0	0	0
Input Priority	All	All	All	All	All	All	All	All	All	All
Delay Mode	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp

Preempt Priority

Preempt Priority	1	2	3	4	5	6	7	8	9	10
	0	0	0	0	0	0	0	0	0	0

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis	Dis	Dis	Dis	Dis	Dis	Dis	Dis
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

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Preempt 2 (Configuration)

10/21/2020 1:50:10 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="Yes"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text" value="1"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text" value="6"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	LRV Disable	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="2"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	LRV Dwell Flash	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
			LRV Omit	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

Preempt 2 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>			Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TClr 1 Veh Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TClr 1 Ped Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TClr 1 Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Exit Red	<input type="text" value="0.0"/>		
TClr 1 Olap Ped	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
TClr 2 Veh Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Dwell Extend	<input type="text" value="3"/>		
TClr 2 Ped Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TClr 2 Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>		
TClr 2 Olap Ped	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell Ped Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell Olap Ped	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Exit Veh Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Exit Ped Phases	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Exit Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Exit Olap Ped	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Zero Phase Walk	<input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="8"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Zero Phase Ped Clr	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Phases/Overlaps	1-8	9-16	
Zero Phase Green	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	TClr 1 FR Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Zero Olap Walk	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	TClr 2 FR Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Zero Olap Ped Clr	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Dwell FR Olap	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Zero Olap Green	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	TClr 1 FYA	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Dwell-Phase Red	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	TClr 2 FYA	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Dwell-Phase Red Flash	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Dwell FYA	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Dwell-Phase Yel Flash	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell-Olap Red Flash	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell-Olap Yel Flash	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell-Ped Dark	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Dwell-Olap Ped Dark	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				

324 - Folsom & Power Inn

Preempt 3 (Configuration)

10/21/2020 1:50:10 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8		
Enable Phases	<input type="text" value="2"/> <input type="text" value="5"/>		LRV Disable	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	Max	<input type="text" value="0"/>
Preempt Inputs	<input type="text" value="3"/> <input type="text" value=""/>		LRV Dwell Flash	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>		
			LRV Omit	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	Delay	<input type="text" value="0"/>
			LRV No Yel	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>		

Preempt 3 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr					Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn			Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Veh Phases			TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TC1r 1 Ped Phases			Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 1 Olap			Exit Red	<input type="text" value="0.0"/>		
TC1r 1 Olap Ped			Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
TC1r 2 Veh Phases			Dwell Extend	<input type="text" value="3"/>		
TC1r 2 Ped Phases			Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TC1r 2 Olap			Reserve Inh Same	<input type="text" value="0"/>		
TC1r 2 Olap Ped			Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases			Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text" value="1"/> <input type="text" value="6"/>		Phases/Overlaps	1-8	9-16	
Dwell Ped Phases			TC1r 1 FR Olap	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Dwell Olap			TC1r 2 FR Olap	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Dwell Olap Ped			Dwell FR Olap	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Exit Veh Phases	<input type="text" value="1"/> <input type="text" value="6"/>		TC1r 1 FYA	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Exit Ped Phases			TC1r 2 FYA	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Exit Olap			Dwell FYA	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	<input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>	
Exit Olap Ped						
Zero Phase Walk	<input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="8"/>					
Zero Phase Ped Clr						
Zero Phase Green						
Zero Olap Walk						
Zero Olap Ped Clr						
Zero Olap Green						
Dwell-Phase Red						
Dwell-Phase Red Flash						
Dwell-Phase Yel Flash						
Dwell-Olap Red Flash						
Dwell-Olap Yel Flash						
Dwell-Ped Dark						
Dwell-Olap Ped Dark						

324 - Folsom & Power Inn

Preempt 4 (Configuration)

10/21/2020 1:50:10 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text" value="3"/> <input type="text" value="8"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="4"/> <input type="text"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 4 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>			Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Veh Phases	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TC1r 1 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 1 Olap	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>		
TC1r 1 Olap Ped	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
TC1r 2 Veh Phases	<input type="text"/>	<input type="text"/>	Dwell Extend	<input type="text" value="3"/>		
TC1r 2 Ped Phases	<input type="text"/>	<input type="text"/>	Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TC1r 2 Olap	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>		
TC1r 2 Olap Ped	<input type="text"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text" value="3"/> <input type="text" value="8"/>	<input type="text"/>	Phases/Overlaps	1-8	9-16	
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	TC1r 1 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap	<input type="text"/>	<input type="text"/>	TC1r 2 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>	<input type="text"/>	
Exit Veh Phases	<input type="text" value="3"/> <input type="text" value="8"/>	<input type="text"/>	TC1r 1 FYA	<input type="text"/>	<input type="text"/>	
Exit Ped Phases	<input type="text"/>	<input type="text"/>	TC1r 2 FYA	<input type="text"/>	<input type="text"/>	
Exit Olap	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>	<input type="text"/>	
Exit Olap Ped	<input type="text"/>	<input type="text"/>				
Zero Phase Walk	<input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="8"/>	<input type="text"/>				
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Phase Green	<input type="text"/>	<input type="text"/>				
Zero Olap Walk	<input type="text"/>	<input type="text"/>				
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Olap Green	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>				
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>				

324 - Folsom & Power Inn

Preempt 5 (Configuration)

10/21/2020 1:50:10 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text" value="4"/> <input type="text" value="7"/>		LRV Disable	<input type="text" value="0"/>	Max
Preempt Inputs	<input type="text" value="5"/>		LRV Dwell Flash	<input type="text" value="0"/>	
			LRV Omit	<input type="text" value="0"/>	Delay
			LRV No Yel	<input type="text" value="0"/>	

Preempt 5 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr					Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn			Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TCI 1 Veh Phases			TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TCI 1 Ped Phases			Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TCI 1 Olap			Exit Red	<input type="text" value="0.0"/>		
TCI 1 Olap Ped			Min Dwell	<input type="text" value="5"/>	Min Duration	<input type="text" value="0"/>
TCI 2 Veh Phases			Dwell Extend	<input type="text" value="3"/>		
TCI 2 Ped Phases			Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TCI 2 Olap			Reserve Inh Same	<input type="text" value="0"/>		
TCI 2 Olap Ped			Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases			Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text" value="4"/> <input type="text" value="7"/>		Phases/Overlaps	1-8	9-16	
Dwell Ped Phases			TCI 1 FR Olap	<input type="text" value="0"/>	<input type="text" value="0"/>	
Dwell Olap			TCI 2 FR Olap	<input type="text" value="0"/>	<input type="text" value="0"/>	
Dwell Olap Ped			Dwell FR Olap	<input type="text" value="0"/>	<input type="text" value="0"/>	
Exit Veh Phases	<input type="text" value="4"/> <input type="text" value="7"/>		TCI 1 FYA	<input type="text" value="0"/>	<input type="text" value="0"/>	
Exit Ped Phases			TCI 2 FYA	<input type="text" value="0"/>	<input type="text" value="0"/>	
Exit Olap			Dwell FYA	<input type="text" value="0"/>	<input type="text" value="0"/>	
Exit Olap Ped						
Zero Phase Walk	<input type="text" value="2"/> <input type="text" value="4"/> <input type="text" value="6"/> <input type="text" value="8"/>					
Zero Phase Ped Clr						
Zero Phase Green						
Zero Olap Walk						
Zero Olap Ped Clr						
Zero Olap Green						
Dwell-Phase Red						
Dwell-Phase Red Flash						
Dwell-Phase Yel Flash						
Dwell-Olap Red Flash						
Dwell-Olap Yel Flash						
Dwell-Ped Dark						
Dwell-Olap Ped Dark						

324 - Folsom & Power Inn

Soft Preempt 1 - Misc

10/21/2020 1:50:10 PM

Dwell Step	0	Override SPE Flash	No
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Override Steps

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Phases/Overlaps

1-8

9-16

Dwl Phase Red

Dwl Phase Red Flash

Dwl Phase Yel Flash

Dwl Olap Red Flash

Dwl Ped Dark

Dwl Olap Ped Dark

Dwl Zero Phase Ped Clr

Dwl Zero Phase Green

Dwl Zero Olap Ped Clr

Dwl Zero Olap Green

324 - Folsom & Power Inn

Soft Preempt 2 - Misc

10/21/2020 1:50:10 PM

Dwell Step	0	Override SPE Flash	No
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Override Steps

--	--	--	--	--	--	--	--

Phases/Overlaps

1-8

9-16

Dwl Phase Red

Dwl Phase Red Flash

Dwl Phase Yel Flash

Dwl Olap Red Flash

Dwl Ped Dark

Dwl Olap Ped Dark

Dwl Zero Phase Ped Clr

Dwl Zero Phase Green

Dwl Zero Olap Ped Clr

Dwl Zero Olap Green

324 - Folsom & Power Inn

Soft Preempt 3 - Misc

10/21/2020 1:50:10 PM

Dwell Step	0	Override SPE Flash	No
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Override Steps

--	--	--	--	--	--	--	--

Phases/Overlaps

1-8

9-16

Dwl Phase Red

Dwl Phase Red Flash

Dwl Phase Yel Flash

Dwl Olap Red Flash

Dwl Ped Dark

Dwl Olap Ped Dark

Dwl Zero Phase Ped Clr

Dwl Zero Phase Green

Dwl Zero Olap Ped Clr

Dwl Zero Olap Green

324 - Folsom & Power Inn

Soft Preempt 4 - Misc

10/21/2020 1:50:10 PM

Dwell Step	0	Override SPE Flash	No
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Override Steps

--	--	--	--	--	--	--	--

Phases/Overlaps

1-8

9-16

Dwl Phase Red

Dwl Phase Red Flash

Dwl Phase Yel Flash

Dwl Olap Red Flash

Dwl Ped Dark

Dwl Olap Ped Dark

Dwl Zero Phase Ped Clr

Dwl Zero Phase Green

Dwl Zero Olap Ped Clr

Dwl Zero Olap Green

324 - Folsom & Power Inn

TOD Pattern Events

10/21/2020 1:50:10 PM

	Time	DOW							Holidays							Mode	Pattern	Offset
Event 1	00:00															Sched	0	0
Event 2	00:00															Sched	0	0
Event 3	00:00															Sched	0	0
Event 4	00:00															Sched	0	0
Event 5	00:00															Sched	0	0
Event 6	00:00															Sched	0	0
Event 7	00:00															Sched	0	0
Event 8	00:00															Sched	0	0
Event 9	00:00															Sched	0	0
Event 10	00:00															Sched	0	0
Event 11	00:00															Sched	0	0
Event 12	00:00															Sched	0	0
Event 13	00:00															Sched	0	0
Event 14	00:00															Sched	0	0
Event 15	00:00															Sched	0	0
Event 16	00:00															Sched	0	0
Event 17	00:00															Sched	0	0
Event 18	00:00															Sched	0	0
Event 19	00:00															Sched	0	0
Event 20	00:00															Sched	0	0
Event 21	00:00															Sched	0	0
Event 22	00:00															Sched	0	0
Event 23	00:00															Sched	0	0
Event 24	00:00															Sched	0	0
Event 25	00:00															Sched	0	0
Event 26	00:00															Sched	0	0
Event 27	00:00															Sched	0	0
Event 28	00:00															Sched	0	0
Event 29	00:00															Sched	0	0
Event 30	00:00															Sched	0	0
Event 31	00:00															Sched	0	0
Event 32	00:00															Sched	0	0

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Holidays

10/21/2020 1:50:10 PM

	Active Holidays	Month	Day	DOW	WOM
Date 1		0	0		0
Date 2		0	0		0
Date 3		0	0		0
Date 4		0	0		0
Date 5		0	0		0
Date 6		0	0		0
Date 7		0	0		0
Date 8		0	0		0
Date 9		0	0		0
Date 10		0	0		0
Date 11		0	0		0
Date 12		0	0		0
Date 13		0	0		0
Date 14		0	0		0
Date 15		0	0		0
Date 16		0	0		0
Date 17		0	0		0
Date 18		0	0		0
Date 19		0	0		0
Date 20		0	0		0
Date 21		0	0		0
Date 22		0	0		0
Date 23		0	0		0
Date 24		0	0		0
Date 25		0	0		0
Date 26		0	0		0
Date 27		0	0		0
Date 28		0	0		0
Date 29		0	0		0
Date 30		0	0		0
Date 31		0	0		0
Date 32		0	0		0

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Load Switch Outputs (BIU 1)

10/21/2020 1:50:10 PM

	LS 1	LS 2	LS 3	LS 4	LS 5	LS 6	LS 7	LS 8
Red Function	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Red Index	1	2	3	4	5	6	7	8
Yellow Function	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel
Yellow Index	1	2	3	4	5	6	7	8
Green Function	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn
Green Index	1	2	3	4	5	6	7	8

Load Switch Outputs (BIU 2)

	LS 9	LS 10	LS 11	LS 12	LS 13	LS 14	LS 15	LS 16
Red Function	VehRed	DntWlk	DntWlk	DntWlk	VehRed	VehRed	VehRed	VehRed
Red Index	0	0	0	0	0	0	0	0
Yellow Function	VehRed	PedClr	PedClr	PedClr	VehRed	VehRed	VehRed	VehRed
Yellow Index	0	0	0	0	0	0	0	0
Green Function	VehRed	Walk	Walk	Walk	VehRed	VehRed	VehRed	VehRed
Green Index	0	0	0	0	0	0	0	0

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T/F Outputs (BIU 1)

10/21/2020 1:50:10 PM

	I/O 10	I/O 11	I/O 12	I/O 13
Output	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0

T/F Outputs (BIU 2)

	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0

T/F Outputs (BIU 3)

	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0	0	0
	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	I/O 1
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0	0	0
	I/O 2	I/O 3	I/O 4	I/O 5	I/O 6			
Output	VehRed	VehRed	VehRed	VehRed	VehRed			
Index	0	0	0	0	0			

T/F Outputs (BIU 4)

	OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0	0	0
	OUT 9	OUT 10	OUT 11	OUT 12	OUT 13	OUT 14	OUT 15	I/O 1
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0	0	0
	I/O 2	I/O 3	I/O 4	I/O 5	I/O 6	I/O 7	I/O 8	I/O 9
Output	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Index	0	0	0	0	0	0	0	0

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Detector Inputs (BIU 9)

10/21/2020 1:50:10 PM

	Det 1	Det 2	Det 3	Det 4	Det 5	Det 6	Det 7	Det 8
Function	None	None	None	None	None	None	None	None
Index	1	2	3	4	0	0	0	0
	Det 9	Det 10	Det 11	Det 12	Det 13	Det 14	Det 15	Det 16
Function	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0

Detector Inputs (BIU 10)

	Det 17	Det 18	Det 19	Det 20	Det 21	Det 22	Det 23	Det 24
Function	None	None	None	None	None	None	None	None
Index	17	18	19	20	21	22	23	24
	Det 25	Det 26	Det 27	Det 28	Det 29	Det 30	Det 31	Det 32
Function	None	None	None	None	None	None	None	None
Index	25	26	27	28	29	30	31	32

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Detector Inputs (BIU 11)

10/21/2020 1:50:10 PM

	Det 33	Det 34	Det 35	Det 36	Det 37	Det 38	Det 39	Det 40
Function	VehDet	VehDet	VehDet	None	VehDet	None	VehDet	VehDet
Index	33	34	35	36	37	38	39	40
	Det 41	Det 42	Det 43	Det 44	Det 45	Det 46	Det 47	Det 48
Function	VehDet	VehDet	VehDet	VehDet	VehDet	None	VehDet	VehDet
Index	41	42	43	44	45	46	47	48

Detector Inputs (BIU 12)

	Det 49	Det 50	Det 51	Det 52	Det 53	Det 54	Det 55	Det 56
Function	VehDet	VehDet	VehDet	VehDet	None	None	VehDet	VehDet
Index	49	50	51	52	53	54	55	56
	Det 57	Det 58	Det 59	Det 60	Det 61	Det 62	Det 63	Det 64
Function	VehDet	VehDet	VehDet	VehDet	None	None	VehDet	VehDet
Index	57	58	59	60	61	62	63	64

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T/F Inputs (BIU 1)

10/21/2020 1:50:10 PM

	I/O 14	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 22	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5
Input	None	None	None	None	StopTm	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 6	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4	
Input	None	None	None	None	PedDet	PedDet	PedDet	
Index	0	0	0	0	0	0	0	

T/F Inputs (BIU 2)

	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4			
Input	None	None	PedDet	PedDet	PedDet			
Index	0	0	0	0	0			

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T/F Inputs (BIU 3)

10/21/2020 1:50:10 PM

	I/O 7	I/O 8	I/O 9	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4		
Input	None	None	None	None	None	None		
Index	0	0	0	0	0	0		

T/F Inputs (BIU 4)

	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15	I/O 16	I/O 17
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23	I/O 24	IN 1
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	OPTO 1
Input	None	None	None	None	None	None	None	None
Index	0	0	0	0	0	0	0	0
	OPTO 2	OPTO 3	OPTO 4					
Input	None	None	None					
Index	0	0	0					

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Cabinet / MMU Configuration

10/21/2020 1:50:10 PM

Cabinet Type	TS2-Type2	MMU Channel Ignore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MMU Disable	Yes	Det BIU 1-No Fail Call	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Det BIU 2-No Fail Call	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Alt LS Flash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Alt Phase Flash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Alt Overlap Flash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Alt LRV Flash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CMU Channel Ignore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Det IASM1-Det Diag	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
Det IASM2-Det Diag	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	Normal
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

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Vehicle Detector 1

10/21/2020 1:50:10 PM

Delay	0.0	Extend	0.0	Carryover	0.0	Queue Limit	0
-------	-----	--------	-----	-----------	-----	-------------	---

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

Vehicle Detector 2

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

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Vehicle Detector 3

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

3

Yellow Lock Phases

Red Lock Phases

Extend Phases

3

XSwitch Phases

Bike Call Phases

Vehicle Detector 4

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

4

Yellow Lock Phases

Red Lock Phases

Extend Phases

4	
---	--

XSwitch Phases

Bike Call Phases

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Vehicle Detector 5

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

5

Yellow Lock Phases

Red Lock Phases

Extend Phases

5

XSwitch Phases

Bike Call Phases

Vehicle Detector 6

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

6

Yellow Lock Phases

Red Lock Phases

Extend Phases

6

XSwitch Phases

Bike Call Phases

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Vehicle Detector 7

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

						7	
--	--	--	--	--	--	---	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

						7	
--	--	--	--	--	--	---	--

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

Vehicle Detector 8

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

							8
--	--	--	--	--	--	--	---

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

							8
--	--	--	--	--	--	--	---

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

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Vehicle Detector 11

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases

1-8

9-16

Call Phases

		3					
--	--	---	--	--	--	--	--

--	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Extend Phases

		3					
--	--	---	--	--	--	--	--

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Vehicle Detector 12

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases

1-8

9-16

Call Phases

		4					
--	--	---	--	--	--	--	--

--	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Extend Phases

		4					
--	--	---	--	--	--	--	--

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

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Vehicle Detector 13

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases				5											
Yellow Lock Phases															
Red Lock Phases															
Extend Phases				5											
XSwitch Phases															
Bike Call Phases															

Vehicle Detector 14

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases					6									
Yellow Lock Phases														
Red Lock Phases														
Extend Phases					6									
XSwitch Phases														
Bike Call Phases														

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Vehicle Detector 15

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

						7	
--	--	--	--	--	--	---	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

						7	

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

Vehicle Detector 16

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

							8
--	--	--	--	--	--	--	---

Yellow Lock Phases

Red Lock Phases

Extend Phases

							8

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

324 - Folsom & Power Inn

Vehicle Detector 17

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8						9-16					
Initial Phases					6							
Early Phases												
Mid Phases												
Late Phases					6							
Final Phases												
Post-Phases												

Vehicle Detector 18

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

	1-8						9-16					
1 Phases					6							
2 Phases												
3 Phases												
4 Phases					6							
5 Phases												
6 Phases												

324 - Folsom & Power Inn

Vehicle Detector 19

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

6

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

Phases

1-8

9-16

Call Phases

7

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 21

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

						7	
--	--	--	--	--	--	---	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

						7	

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

Vehicle Detector 22

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

						7	
--	--	--	--	--	--	---	--

Yellow Lock Phases

Red Lock Phases

Extend Phases

						7	

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 31

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases

1-8

9-16

Call Phases

				5			
--	--	--	--	---	--	--	--

--	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Extend Phases

				5			
--	--	--	--	---	--	--	--

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Vehicle Detector 32

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases

1-8

9-16

Call Phases

				5			
--	--	--	--	---	--	--	--

--	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Extend Phases

				5			
--	--	--	--	---	--	--	--

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

324 - Folsom & Power Inn

Vehicle Detector 33

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

Vehicle Detector 34

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

324 - Folsom & Power Inn

Vehicle Detector 35

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

6

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

Phases

1-8

9-16

Call Phases

6

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 40

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

6		
---	--	--

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

Vehicle Detector 41

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

5

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 42

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

5

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

5

Vehicle Detector 43

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

2

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 44

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

2							
---	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

	2						

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

Vehicle Detector 45

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

	2						
--	---	--	--	--	--	--	--

Yellow Lock Phases

Red Lock Phases

Extend Phases

2							

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

324 - Folsom & Power Inn

Vehicle Detector 47

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

	2						
	2						

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

Vehicle Detector 48

Delay	8.0	Extend	0.0	Carryover	0.0	Queue Limit	0
-------	-----	--------	-----	-----------	-----	-------------	---

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

	2						
	2						

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 49

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

3

Yellow Lock Phases

Red Lock Phases

Extend Phases

3

XSwitch Phases

Bike Call Phases

Vehicle Detector 50

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

3

Yellow Lock Phases

Red Lock Phases

Extend Phases

XSwitch Phases

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 51

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8	9-16
--------	-----	------

Call Phases						8								
Yellow Lock Phases														
Red Lock Phases														
Extend Phases						8								
XSwitch Phases														
Bike Call Phases														

Vehicle Detector 55

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8	9-16
--------	-----	------

Call Phases						8						
Yellow Lock Phases												
Red Lock Phases												
Extend Phases												
XSwitch Phases												
Bike Call Phases						8						

324 - Folsom & Power Inn

Vehicle Detector 56

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8	9-16
--------	-----	------

Call Phases						8						
Yellow Lock Phases												
Red Lock Phases												
Extend Phases						8						
XSwitch Phases												
Bike Call Phases												

Vehicle Detector 57

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8	9-16
--------	-----	------

Call Phases					7						
Yellow Lock Phases											
Red Lock Phases											
Extend Phases					7						
XSwitch Phases											
Bike Call Phases											

324 - Folsom & Power Inn

Vehicle Detector 58

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

						7	
--	--	--	--	--	--	---	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

Extend Phases

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

						7	
--	--	--	--	--	--	---	--

Vehicle Detector 59

Delay Extend Carryover Queue Limit

Mode	Disconnect	Added	Disabled	System	Disabled
------	------------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

			4				
--	--	--	---	--	--	--	--

Yellow Lock Phases

Red Lock Phases

Extend Phases

			4				
--	--	--	---	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

Bike Call Phases

324 - Folsom & Power Inn

Vehicle Detector 64

10/21/2020 1:50:10 PM

Delay Extend Carryover Queue Limit

Mode Added System

Fail Mode Max Pres No Act Erratic Fail Time

Delay 2

Phases

1-8

9-16

Call Phases

			4				
--	--	--	---	--	--	--	--

--	--	--	--	--	--	--	--

Yellow Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Red Lock Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Extend Phases

			4				
--	--	--	---	--	--	--	--

--	--	--	--	--	--	--	--

XSwitch Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

Bike Call Phases

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

324 - Folsom & Power Inn

Pedestrian Detector 2

10/21/2020 1:50:10 PM

No Act

Max Pres

Erratic

Fail Mode

Phases/Overlaps

1-8

9-16

Call Ped Phases

Call Ped Olaps

Call Phases

Locked Call Phases

Ped Entry Phases

Olap Ped Entry Phases

Ped Cascade Phases

Call Walk2

Pedestrian Detector 4

No Act

Max Pres

Erratic

Fail Mode

Phases/Overlaps

1-8

9-16

Call Ped Phases

Call Ped Olaps

Call Phases

Locked Call Phases

Ped Entry Phases

Olap Ped Entry Phases

Ped Cascade Phases

Call Walk2

Pedestrian Detector 6

No Act

Max Pres

Erratic

Fail Mode

Phases/Overlaps

1-8

9-16

Call Ped Phases

Call Ped Olaps

Call Phases

Locked Call Phases

Ped Entry Phases

Olap Ped Entry Phases

Ped Cascade Phases

Call Walk2

Pedestrian Detector 8

No Act

Max Pres

Erratic

Fail Mode

Phases/Overlaps

1-8

9-16

Call Ped Phases

Call Ped Olaps

Call Phases

Locked Call Phases

Ped Entry Phases

Olap Ped Entry Phases

Ped Cascade Phases

Call Walk2

324 - Folsom & Power Inn

Adaptive Priority - General/Local Detectors

10/21/2020 1:50:10 PM

Local Detector Slack	0
Remote Detector Slack	0
Local Adjust Threshold	0
Remote Adjust Threshold	0

Detector	1	2	3	4	5	6	7	8
Step (Base)	0	0	0	0	0	0	0	0
Max (Base)	0	0	0	0	0	0	0	0
Step (Alt 1)	0	0	0	0	0	0	0	0
Max (Alt 1)	0	0	0	0	0	0	0	0
Step (Alt 2)	0	0	0	0	0	0	0	0
Max (Alt 2)	0	0	0	0	0	0	0	0
Step (Alt 3)	0	0	0	0	0	0	0	0
Max (Alt 3)	0	0	0	0	0	0	0	0

324 - Folsom & Power Inn

Estimated Delay

10/21/2020 1:50:10 PM

Transit	1	2	3	4	5	6	7	8
Disable	No	No	No	No	No	No	No	No
Rem Phs	0	0	0	0	0	0	0	0
Loc Int	0	0	0	0	0	0	0	0
Loc TT	0	0	0	0	0	0	0	0
RM1 Int	0	0	0	0	0	0	0	0

324 - Folsom & Power Inn

Transit/LRV Startup/Options

10/21/2020 1:50:10 PM

No Startup Call ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

LRV 1-8

Warn Flash Rate

Rsrv Inh Mode

324 - Folsom & Power Inn

Control / Config

10/21/2020 1:50:10 PM

Pattern Mode

Manual Pattern Manual Offset

Stop Time Input

Aux Switch

DLS Mode Time Zone

GPS Thresh

Password Timeout

Maint Phs Recalls

1-8								9-16							
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

Maint Ped Recalls

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Serial 1 Port Configuration

Broadcast Plan/Sync

Broadcast Time

Serial Rebroadcast

Response

Serial 2 Port Configuration

Broadcast Plan/Sync

Broadcast Time

Ethernet Port Configuration

Broadcast Plan/Sync

Broadcast Time

Serial Rebroadcast

Peer Configuration

Peer 1

Peer 2

Peer 3

Peer 4

Peer 5

Peer 6

Peer 7

Peer 8

324 - Folsom & Power Inn

Logging

10/21/2020 1:50:10 PM

VO Log Period	<input type="text" value="15"/>	1 of 2 Hits (Det BIU 1)	<input type="text"/>	<input type="text"/>
Power On	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 2)	<input type="text"/>	<input type="text"/>
Ext Start	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 3)	<input type="text"/>	<input type="text"/>
Man Control	<input type="text" value="Enabled"/>	1 of 2 Hits (Det BIU 4)	<input type="text"/>	<input type="text"/>
Cabinet Door	<input type="text" value="Enabled"/>	SPmt 1 Req Switch	<input type="text"/>	
MMU Faults	<input type="text" value="Enabled"/>	SPmt 2 Req Switch	<input type="text"/>	
BIU Faults	<input type="text" value="Enabled"/>	SPmt 3 Req Switch	<input type="text"/>	
Det Faults	<input type="text" value="Enabled"/>	SPmt 4 Req Switch	<input type="text"/>	
Coordination	<input type="text" value="Enabled"/>	Zone 1 Req Switch	<input type="text"/>	
Preempt	<input type="text" value="Enabled"/>	Zone 2 Req Switch	<input type="text"/>	
Soft Preempt	<input type="text" value="Disabled"/>	Zone 3 Req Switch	<input type="text"/>	
Zone	<input type="text" value="Disabled"/>	Zone 4 Req Switch	<input type="text"/>	
Speed Traps	<input type="text" value="Disabled"/>	Zone 5 Req Switch	<input type="text"/>	
		Zone 6 Req Switch	<input type="text"/>	
		Zone 7 Req Switch	<input type="text"/>	
		Zone 8 Req Switch	<input type="text"/>	
		Trap Grp 1 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 2 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 3 Req Switch	<input type="text"/>	<input type="text"/>
		Trap Grp 4 Req Switch	<input type="text"/>	<input type="text"/>

324 - Folsom & Power Inn

Restricted Data

10/21/2020 1:50:10 PM

(Serial Ports)

Serial Port 1

Baud Rate

RTS On

RTS Off

Serial Port 2

Baud Rate

RTS On

RTS Off

(Ethernet)

IP Address

Netmask

Broadcast Address

Gateway

Gateway 2

Gateway 3

Gateway 4

Admin IP

Leases

Admin Netmask

Port

Reply Mode

Broadcast Port

Response

Time Port

(General)

Controller Address

Timeout

Peer Address

Timeout

Remote Calls

Remote Preempt

Remote Soft Preempt

Remote Priority

Remote MCE

MCE Max

Detector

Detector	Pin	Mode	Call	Ext	Delay	Extend	Carryover	Queue
1	56	Normal	1	1	0.0	0.0	0.0	0
2	39	Normal	2	2	0.0	0.0	0.0	0
3	58	Normal	3	3	0.0	0.0	0.0	0
4	41	Normal	4	4	0.0	0.0	0.0	0
5	55	Normal	5	5	0.0	0.0	0.0	0
6	40	Normal	6	6	0.0	0.0	0.0	0
7	57	Normal	7	7	0.0	0.0	0.0	0
8	42	Normal	8	8	0.0	0.0	0.0	0
9	-1	Normal	1	1	0.0	0.0	0.0	0
10	-1	Normal	2	2	0.0	0.0	0.0	0
11	-1	Normal	3	3	0.0	0.0	0.0	0
12	-1	Normal	4	4	0.0	0.0	0.0	0
13	-1	Normal	5	5	0.0	0.0	0.0	0
14	-1	Normal	6	6	0.0	0.0	0.0	0
15	-1	Normal	7	7	0.0	0.0	0.0	0
16	-1	Normal	8	8	0.0	0.0	0.0	0
17	-1	Normal	6	6	0.0	0.0	0.0	0
18	-1	Normal	6	6	0.0	0.0	0.0	0
19	-1	Normal	6	6	0.0	0.0	0.0	0
20	-1	Normal	7	7	0.0	0.0	0.0	0
21	-1	Normal	7	7	0.0	0.0	0.0	0
22	-1	Normal	7	7	0.0	0.0	0.0	0
23								
24								
25								
26								
27								
28								
29								
30								

Phase (Detector)



SCREENPRESSO.COM

Create and share your screen captures with Screenpresso (free)

Detector	Pin	Mode	Call	Ext	Delay	Extend	Carryover	Queue
31	-1	Normal	5	5	0.0	0.0	0.0	0
32	-1	Normal	5	5	0.0	0.0	0.0	0
33	-1	Normal	1	1	0.0	0.0	0.0	0
34	-1	Normal	1		0.0	0.0	0.0	0
35	-1	Disc	6	6	0.0	0.0	0.0	0
36								
37								
38								
39	-1	Normal	6		0.0	0.0	0.0	0
40	-1	Disc	6	6	10.0	0.0	0.0	0
41	-1	Normal	5	5	0.0	0.0	0.0	0
42	-1	Normal	5		0.0	0.0	0.0	0
43	-1	Disc	2	2	0.0	0.0	0.0	0
44	-1	Normal	2	2	0.0	0.0	0.0	0
45	-1	Normal	2	2	0.0	0.0	0.0	0
46								
47	-1	Normal	2		0.0	0.0	0.0	0
48	-1	Disc	2	2	8.0	0.0	0.0	0
49	-1	Normal	3	3	0.0	0.0	0.0	0
50	-1	Normal	3		0.0	0.0	0.0	0
51	-1	Disc	8	8	0.0	0.0	0.0	0
52								
53								
54								
55	-1	Normal	8		0.0	0.0	0.0	0
56	-1	Disc	8	8	10.0	0.0	0.0	0
57	-1	Normal	7	7	0.0	0.0	0.0	0
58	-1	Normal	7		0.0	0.0	0.0	0
59	-1	Disc	4	4	0.0	0.0	0.0	0
60	-1	Normal	4	4	0.0	0.0	0.0	0



55	-1	Disc	4	4	0.0	0.0	0.0	0
60	-1	Normal	4	4	0.0	0.0	0.0	0
61								
62								
63	-1	Normal	4		0.0	0.0	0.0	0
64	-1	Normal	4	4	0.0	0.0	0.0	0



SCREENPRESSO.COM

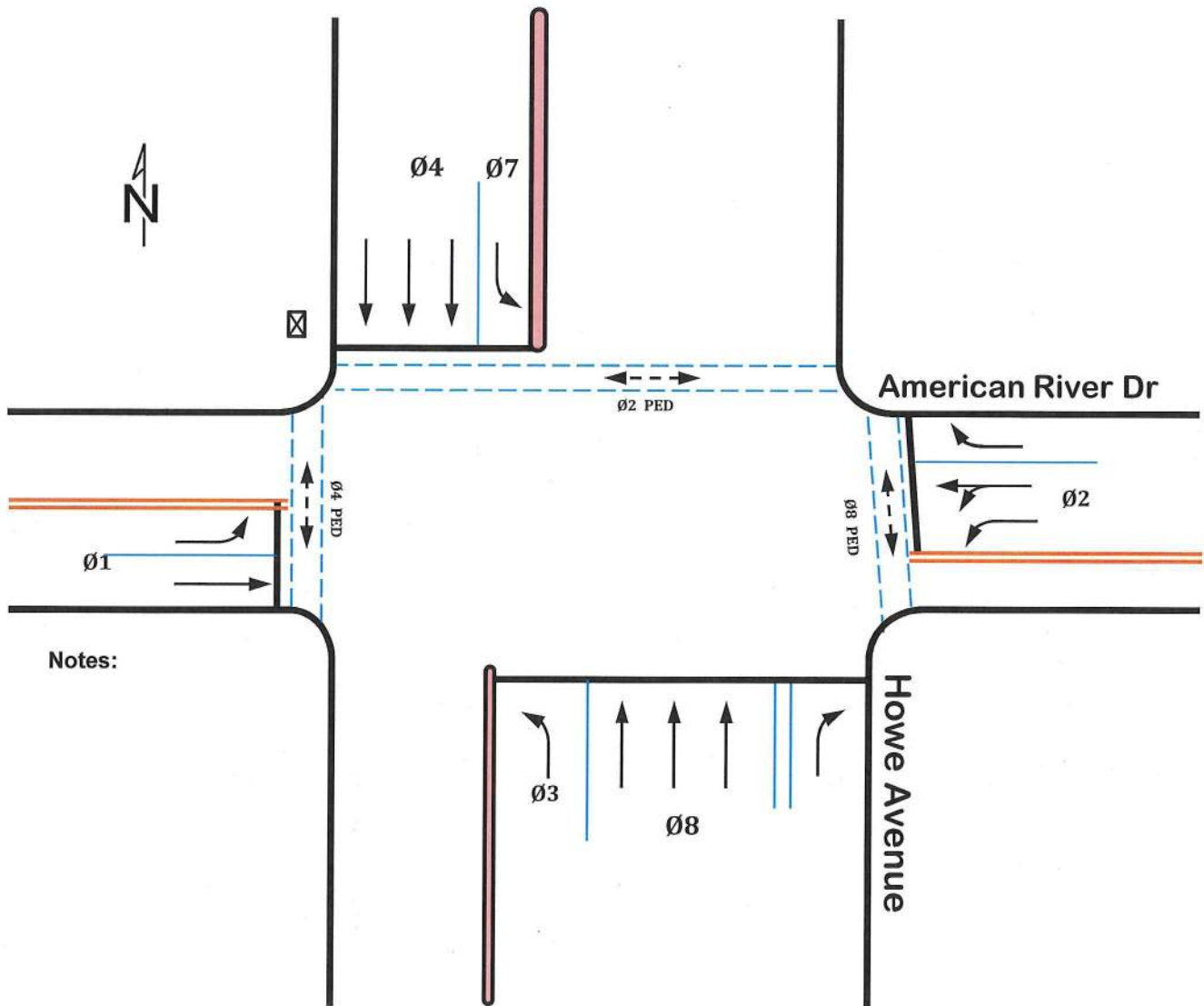
Create and share your screen captures with Screenpresso (free)

ECONOLITE ASC3 TS2

TRAFFIC SIGNAL CONTROLLED PROGRAM CHART

N/S Howe Avenue E/W American River Drive

Intersection #: 345 System IP Address: 172.31.14.13



Ø1 →	Ø2 ↔	Ø3 ↙	Ø4 ↕
		Ø7 ↘	Ø8 ↕

CITY OF SACRAMENTO

Econolite ASC/3 V2.49 and above

PHASE TIMING

Prepared by: Wef

Approved by: [Signature]

Date Implemented: 11-30-18

Controller Timing Data

Key: 2-1

Phase	1	2	3	4	5	6	7	8
Min Green	11	11	9	8			11	8
Walk		7		7				7
Ped Clear		24		11				20
Yellow	3.9	3.9	3.5	4.3			3.5	5.0
Red Clearance	0.3	0.3	0.0	0.5			0.0	0.5
Red Rvt	2.0	2.0	2.0	2.0			2.0	2.0
Vehicle Ext	2.0	2.0	2.0	2.0			2.0	2.0
Max 1	40	40	35	60			35	60
Max 2								
Max 3								
Act B4								
Sec/Act								
Max Ini								
Time B4								
Cars Wt								
Steps to Reduce								
Time to Reduce								
Min Gap								
Bike Green								
CndSrv Min Green								
Delay Green								
Walk 2								
Walk Max								
Ped Clear 2								
Ped Clear Max								
Ped CarryOver								
Vehicle Ext 2								
Dym Green								
Dym Step								
Red Max								

Guaranteed Min Time Data

Key: 2-4

Phase	1	2	3	4	5	6	7	8
Min Green	5	5	5	5	5	5	5	5
Walk	0	7	0	7	0	0	0	7
Ped Clear	0	10	0	10	0	0	0	10
Yellow Clear	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overlap	A	B	C	D	E	F	G	H
Overlap Green	5	5	5	5	5	5	5	5

Controller Start/Flash Data

Key: 2-5

Phase	1	2	3	4	5	6	7	8
Phase (Color)				Y				Y
Overlap	X	X	X	X				
Flash/Mon	No			Start Flash Time			0	sec
PWR Start Seq	1			All Red			6	sec
Note: Startup phase can be Y, R, G or W								
Automatic Flash								
Phase	1	2	3	4	5	6	7	8
Entry				4				8
Exit				4				8
Overlap	A	B	C	D	E	F	G	H
Exit	X	X	X	X				
Flash/Mon	No			Exit Flash			W	
Min Flash	0	sec		Min Recall			Yes	
Cycle Thru Phase	Yes							

Phase Recall Data

Key: 2-8

Phase	1	2	3	4	5	6	7	8
Lock Det								
Vehicle Recall				4				8
Ped Recall								
Max Recall								
Soft Recall								
No Rest								
Added Initial Calc								

Controller Options

KEY: 2-6-1

Ped Protect	.	Unit Red Revert			2.0	sec		
Phase	1	2	3	4	5	6	7	8
Flashing Green Phase								
Guar Pass								
Non Act I								
Non Act II								
Dual Entry								
Cond Service			3				7	
Cond Reservice								
Ped Reservice								
Rest in Walk								
Flashing Walk								
PED Clear > yellow								
PED Clear > RED								
IG + VEH EXT								

SET SCREEN FORMAT TO BASIC Key: 1-7-2

CONFIGURATION

Phase Ring Seq and Assignment

Key: 1-1-1

Controller Sequence										1
Hardware Alternate Sequence Enable										No
Barrier	B	B	B	B						
Ring 1	1	2	3	4	9	10	13	14		
Ring 2	5	6	7	8	11	12	15	16		
Ring 3										
Ring 4										

Phase in Use/Exclusive Peds

Key: 1-2

Phase	1	2	3	4	5	6	7	8
Phases in Use	1	2	3	4			7	8
Exclusive Ped								

Load Switch Assign (MMU Chan)

Key: 1-3

CH	PHASE/ OVL	type	DIMMING				FLASH		
			R	Y	G	D	P	A	TGR
1	1	V				+	A	R	
2	2	V				+	A	R	X
3	3	V				+	A	R	
4	4	V				+	A	R	X
5	5	V				-	A	R	
6	6	V				-	A	R	X
7	7	V				-	A	R	
8	8	V				-	A	R	X
9	2	P				+	A		
10	4	P				+	A		
11	6	P				-	A		
12	8	P				-	A		
13	1	O				+	A	R	
14	2	O				-	A	R	X
15	3	O				+	A	R	
16	4	O				-	A	R	X

Display Options

Key: 1-7-2

Key Click Enabled	YES
BackLight Enable	YES
LED Mode	Auto
Main Status Display Mode	Basic
Screen Format	Basic

Ethernet Port Configuration

Key: 1-5-1

IP ADDRESS	172.31.14.13
ADDRESS MASK	255.255.254
DEFAULT GATEWAY ADD	172.31.14.254
SEVER IP ADDRESS	
LINK SPEED/DUPLEX	AUTO
DROP-OUT TIME	300

Port 1 (SDLC Options)

Key: 1-4-1

BIU	1	2	3	4	5	6	7	8
TERM & FACILITY	X	X	.	.	.	.	.	.
DETECTOR	X	X	.	.	.	.	.	.
ENABLE TS2/MMU TYPE CABINET	YES							
ENABLE MMU EXTENDED STATUS	YES							
ENABLE SDLC START TIME	YES							
ENABLE 3 CRITICAL RFE'S LOCKUP	YES							
MMU TO CU SDLC EXTERNAL START	enabled							

Ped Detector Input

Key: 6-3

PED DET ASSIGNMENT MODE								NTCIP	
PHASE	1	2	3	4	5	6	7	8	
DETECTOR	1	2	3	4	5	6	7	8	
PHASE	9	10	11	12	13	14	15	16	
DETECTOR	9	10	11	12	13	14	15	16	

CITY OF SACRAMENTO

Econolite ASC/3 V2.49 above

CONFIGURATION

MMU Program

Key: 1-4-2

CHANNEL CAN SERVE WITH															
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
1
2	X	.	.	.	.	.	.	.
3	X	.	.	.	X	X	.	.	.	.	.
4	X	.	X	.	X	X	.	.	.	.	.
5
6
7	X	.	.	.	.	.	.	.	.
8	X	.	X	.	.	.	.	.	.	.	.
9
10	X	.	.	.	.	.	.	.	.	.	.
11
12
13
14

Simultaneous Gap Phases

Key: 1-1-4

CHANNEL CAN SERVE WITH																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
D

CITY OF SACRAMENTO

COORDINATION

Coordinator Options

KEY: 3-1

Manual Pattern	Auto	ECPI Coord	Yes
System Source	TBC	System Format	Std
Splits In	sec	Offset In	sec
Transition	Smooth	Max Select	Max Inh
Dwell/Add Time	0	Enable Man Sync	No
Dly Coord Wk-Lz	No	Force Off	Float
Offset Ref	Lag	Cal Use Ped Time	Yes
Ped Recall	No	Ped Reserve	No
Local Zero Ovr	No	FO Add Ini Green	No
Re-Sync Count	0	Multisync	No

Coordination Patterns

KEY: 3-2

Coordinator Pattern 1									
Use Split Pattern	1								
Ts2 (Pat Off)	0-1								
Cycle	120	Split Sum					120		
Offset Value	0	Std cycle off split					111		
Actuated Coord	YES	Dwl/Add					0		
Act Walk Rest	NO	Phase Reservice					YES		
Split Reference Phases									
Phase	1	2	3	4	5	6	7	8	
Split (1)	17	38	13	52				15	50
Preference Phase 1									
Preference Phase 2									
Split Extension	20	20							
Vehicle Permissive									
Ring Displacement									
Split Demand Pattern 1									
Phase	1	2	3	4	5	6	7	8	
Coordination				4					8
Vehicle Recall									
Ped Recall									
Max Recall									
Omit									

Coordinator Pattern 2									
Use Split Pattern	2								
Ts2 (Pat Off)	0-2								
Cycle	130	Split Sum					130		
Offset Value	121	Std cycle off split					121		
Actuated Coord	YES	Dwl/Add					0		
Act Walk Rest	NO	Phase Reservice					YES		
Split Reference Phases									
Phase	1	2	3	4	5	6	7	8	
Split (1)	18	36	15	61				15	61
Preference Phase 1									
Preference Phase 2									
Split Extension	20	20							
Vehicle Permissive									
Ring Displacement									
Split Demand Pattern 2									
Phase	1	2	3	4	5	6	7	8	
Coordination				4					8
Vehicle Recall									
Ped Recall									
Max Recall									
Omit									

Coordinator Pattern 3									
Use Split Pattern	3								
Ts2 (Pat Off)	0-3								
Cycle	130	Split Sum					130		
Offset Value	20	Std cycle off split					131		
Actuated Coord	YES	Dwl/Add					0		
Act Walk Rest	NO	Phase Reservice					YES		
Split Reference Phases									
Phase	1	2	3	4	5	6	7	8	
Split (1)	17	36	14	63				15	62
Preference Phase 1									
Preference Phase 2									
Split Extension	30	30							
Vehicle Permissive									
Ring Displacement									
Split Demand Pattern 3									
Phase	1	2	3	4	5	6	7	8	
Coordination				4					8
Vehicle Recall									
Ped Recall									
Max Recall									
Omit									

CITY OF SACRAMENTO

TIME BASE SUBMENU

Clock/Calendar

Key: 5-1

DATE	DOW	TIME
Ena Action Plan	0	
Sync Reference time		Sync Ref
Time from GMT		Daylight Sav
time Reset Input Set		

Schedule Number

Key: 5-4

Schedule Number	1	
Day Plan No	1	Clear all Fields .
Select All Months	X	DOW X DOM X
MON J F M A M J J A S O N D		
DAY (DOW)	SU MO TU WE TH FR SA	
DOM	1 2 3 4 5 6 7 8 9 10 11	
	12 13 14 15 16 17 18 19 20 21 22	
	23 24 25 26 27 28 29 30 31	

Schedule Number	2	
Day Plan No		Clear all Fields .
Select All Months		DOW . DOM .
MON J F M A M J J A S O N D		
DAY (DOW)	SU MO TU WE TH FR SA	
DOM	1 2 3 4 5 6 7 8 9 10 11	
	12 13 14 15 16 17 18 19 20 21 22	
	23 24 25 26 27 28 29 30 31	

Day/Plan Event Key: 5-3

Day Plan in Effect		1
Day Plan		1
Event	Action Plan	Start Time
1	1	7:00
2	2	9:30
3	3	14:00
4	4	19:00
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		

CITY OF SACRAMENTO

ACTION PLAN

Action Plan 1

KEY: 5-2

Pattern	1	Sys Override	NO
Timing Plan	1	Sequence	0
Veh Det Plan	1	Det Log	NONE
Flash	--	Red Rest	NO
Veh Det Diag Plan	0	Ped Det Diag Plan	0
Dimming Enable	NO		
Action Plan Phases		Max 2	
Ped Recall		Max 3	
Walk 2		CS Inh	
Veh Ext		Omit	
Veh Rcl		Spc Funct	
Max Rcl		Aux Funct	
Logic Statement Control			

Action Plan 2

Pattern	2	Sys Override	NO
Timing Plan	1	Sequence	0
Veh Det Plan	1	Det Log	NONE
Flash	--	Red Rest	NO
Veh Det Diag Plan	0	Ped Det Diag Plan	0
Dimming Enable	NO		
Action Plan Phases		Max 2	
Ped Recall		Max 3	
Walk 2		CS Inh	
Veh Ext		Omit	
Veh Rcl		Spc Funct	
Max Rcl		Aux Funct	
Logic Statement Control			

Action Plan 3

Pattern	3	Sys Override	NO
Timing Plan	0	Sequence	2
Veh Det Plan	0	Det Log	NONE
Flash	--	Red Rest	NO
Veh Det Diag Plan	0	Ped Det Diag Plan	0
Dimming Enable	NO		
Action Plan Phases		Max 2	
Ped Recall		Max 3	
Walk 2		CS Inh	
Veh Ext		Omit	
Veh Rcl		Spc Funct	
Max Rcl		Aux Funct	
Logic Statement Control			

Action Plan 4

Pattern	FREE	Sys Override	NO
Timing Plan	.	Sequence	0
Veh Det Plan	0	Det Log	NONE
Flash	--	Red Rest	NO
Veh Det Diag Plan	0	Ped Det Diag Plan	0
Dimming Enable	NO		
Action Plan Phases		Max 2	
Ped Recall		Max 3	
Walk 2		CS Inh	
Veh Ext		Omit	
Veh Rcl		Spc Funct	
Max Rcl		Aux Funct	
Logic Statement Control			

CITY OF SACRAMENTO

Econolite ASC/3 V2.49 above

EV PREEMPT/SCP SUBMENU

Preempt Plan 2 KEY: 4-1

Phase	1	2	3	4	5	6	7	8
Track Clr V								
Track Clr O								
Ena Trl								
Dwell Veh								
Dwell Ped								
Dwell OL								
Cycle Veh								
Cycle Ped								
Cycle OL								
Exit Phase								
Exit Calls								
Sp Function								
Entrance Times	Walk		Ped Cl		Grn		Yel	
	255		255		255		25.5	
Track Clear	Min Gn		Ext Grn		Max G		Yel	
	0		0		0		0	
Dwl/Cyc exit	Min Dwell		Pmt Ext		Mx Trn		Yel	
	6		3		55		0	
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO
Enable	Yes		Pmt Ovrid				X	
Det Lock	X		Delay				0	
Override Flash	.		Duration				0	
Term Ovlp	NO		PC>Yel				NO	
Ped Dark	NO		TC Reserv				NO	
Link Pmt	0		Exit Fl Color				GRN	
Exit Tm Pln	0		Re-Serv				0	
Interlock	NO		Term Ph				NO	
Inhibit	0		Dwell Fl				OFF	
Clr>Grn	NO		Pmt>Crd				YES	
Inhibit Ext Time	0		FLT Type				Hard	
Pmt Active Out	OFF		Pmt Active Dwell				OFF	
Other-Pri Pmt	OFF		Non-Pri Pmt				OFF	

Preempt Plan 3

Phase	1	2	3	4	5	6	7	8
Track Clr V								
Track Clr O								
Ena Trl								
Dwell Veh		X						
Dwell Ped								
Dwell OL								
Cycle Veh								
Cycle Ped								
Cycle OL								
Exit Phase		X						
Exit Calls								
Sp Function								
Entrance Times	Walk		Ped Cl		Grn		Yel	
	255		255		255		4	
Track Clear	Min Gn		Ext Grn		Max G		Yel	
	0		0		0		0	
Dwl/Cyc exit	Min Dwell		Pmt Ext		Mx Trn		Yel	
	6		3		55		0	
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO
Enable	Yes		Pmt Ovrid				X	
Det Lock	X		Delay				0	
Override Flash	.		Duration				0	
Term Ovlp	NO		PC>Yel				NO	
Ped Dark	NO		TC Reserv				NO	
Link Pmt	0		Exit Fl Color				GRN	
Exit Tm Pln	0		Re-Serv				0	
Interlock	NO		Term Ph				NO	
Inhibit	0		Dwell Fl				OFF	
Clr>Grn	NO		Pmt>Crd				YES	
Inhibit Ext Time	0		FLT Type				Hard	
Pmt Active Out	OFF		Pmt Active Dwell				OFF	
Other-Pri Pmt	OFF		Non-Pri Pmt				OFF	

Preempt Plan 4

Phase	1	2	3	4	5	6	7	8
Track Clr V								
Track Clr O								
Ena Trl								
Dwell Veh			X					X
Dwell Ped								
Dwell OL								
Cycle Veh								
Cycle Ped								
Cycle OL								
Exit Phase			X					X
Exit Calls								
Sp Function								
Entrance Times	Walk		Ped Cl		Grn		Yel	
	255		255		255		4	
Track Clear	Min Gn		Ext Grn		Max G		Yel	
	0		0		0		0	
Dwl/Cyc exit	Min Dwell		Pmt Ext		Mx Trn		Yel	
	6		3		55		0	
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO
Enable	Yes		Pmt Ovrid				X	
Det Lock	X		Delay				0	
Override Flash	.		Duration				0	
Term Ovlp	NO		PC>Yel				NO	
Ped Dark	NO		TC Reserv				NO	
Link Pmt	0		Exit Fl Color				GRN	
Exit Tm Pln	0		Re-Serv				0	
Interlock	NO		Term Ph				NO	
Inhibit	0		Dwell Fl				OFF	
Clr>Grn	NO		Pmt>Crd				YES	
Inhibit Ext Time	0		FLT Type				Hard	
Pmt Active Out	OFF		Pmt Active Dwell				OFF	
Other-Pri Pmt	OFF		Non-Pri Pmt				OFF	

Preempt Plan 5

Phase	1	2	3	4	5	6	7	8
Track Clr V								
Track Clr O								
Ena Trl								
Dwell Veh				X			X	
Dwell Ped								
Dwell OL								
Cycle Veh								
Cycle Ped								
Cycle OL								
Exit Phase				X			X	
Exit Calls								
Sp Function								
Entrance Times	Walk		Ped Cl		Grn		Yel	
	255		255		255		4	
Track Clear	Min Gn		Ext Grn		Max G		Yel	
	0		0		0		0	
Dwl/Cyc exit	Min Dwell		Pmt Ext		Mx Trn		Yel	
	6		3		55		0	
Free Dur Prmt	R1	NO	R2	NO	R3	NO	R4	NO
Enable	Yes		Pmt Ovrid				X	
Det Lock	X		Delay				0	
Override Flash	.		Duration				0	
Term Ovlp	NO		PC>Yel				NO	
Ped Dark	NO		TC Reserv				NO	
Link Pmt	0		Exit Fl Color				GRN	
Exit Tm Pln	0		Re-Serv				0	
Interlock	NO		Term Ph				NO	
Inhibit	0		Dwell Fl				OFF	
Clr>Grn	NO		Pmt>Crd				YES	
Inhibit Ext Time	0		FLT Type				Hard	
Pmt Active Out	OFF		Pmt Active Dwell				OFF	
Other-Pri Pmt	OFF		Non-Pri Pmt				OFF	

TS2 DETECTION SCHEDULE

Location: Howe Ave & American River Dr

	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function						
					Type	TS-2	Call Option	Passage Option	Extend Time	Delay Time	Notes
BIU 1	Ø1	1	Door SW	EB	S	X					
	Ø1	1	Front 1	EB	S	X					D1
	Ø1	2	Front 2	EB	S	X					D2
	Ø1	3									
	Ø6	4									
	Ø6	5									
	Ø6	7									
	Ø6	8									
	Ø5	9									
	Ø5	10									
	Ø5	11									
	Ø5	12									
	Ø2	13	Door SW	WB	S	X					
	Ø2	13	Front 1	WB	S	X					D1
	Ø2	14	Front 2	WB	S	X					D2
	Ø2	16									
BIU 2	Ø3	17	Door SW	N-W	S	X					
	Ø3	17	Rear	N-W	S	X					D1
	Ø3	18	Front	N-W	S	X					D2
	Ø8	21	Door SW	NB	S	X					
	Ø8	21	Rear	NB	S	X					D1
	Ø8	22	Mid 1	NB	S	X					D2
	Ø8	23	Mid 2	NB	S	X					D3
	Ø8	24	Mid 3	NB	S	X					D4
	Ø7	25	Door SW	S-E	S	X					
	Ø7	25	Rear	S-E	S	X					D1
	Ø7	26	Front	S-E	S	X					D2
	Ø4	29	Door SW	SB	S	X					
	Ø4	29	Rear	SB	S	X					D1
	Ø4	30	Mid 1	SB	S	X					D2
	Ø4	31	Mid 2	SB	S	X					D3
	Ø4	32	Mid 3	SB	S	X					D4
BIU 3	Ø1	33									
	Ø1	34									
	Ø6	35									
	Ø6	36									
	Ø6	37									
	Ø6	38									
	Ø6	39									
	Ø6	40									
	Ø5	41									
	Ø5	42									
	Ø2	43									
	Ø2	44									
	Ø2	45									
	Ø2	46									
	Ø2	47									
	Ø2	48									
BIU 4	Ø3	49									
	Ø3	50									
	Ø8	51									
	Ø8	52									
	Ø8	53									
	Ø8	54									
	Ø8	55									
	Ø8	56									
	Ø7	57									
	Ø7	58									
	Ø4	59									
	Ø4	60									
	Ø4	61									
	Ø4	62									
	Ø4	63									
	Ø4	64									

Type: N-NTCIP; 8-8ike; S-Standard; D-Disconnect; P-Passage; C-Calling; R-Red Extend; G-Green Extend

Ext Option: Passage; Queue; None

McCain ATCeX TS2 D4

TRAFFIC SIGNAL CONTROLLED PROGRAM CHART

N/S Howe Avenue E/W University Avenue

Intersection #: 346

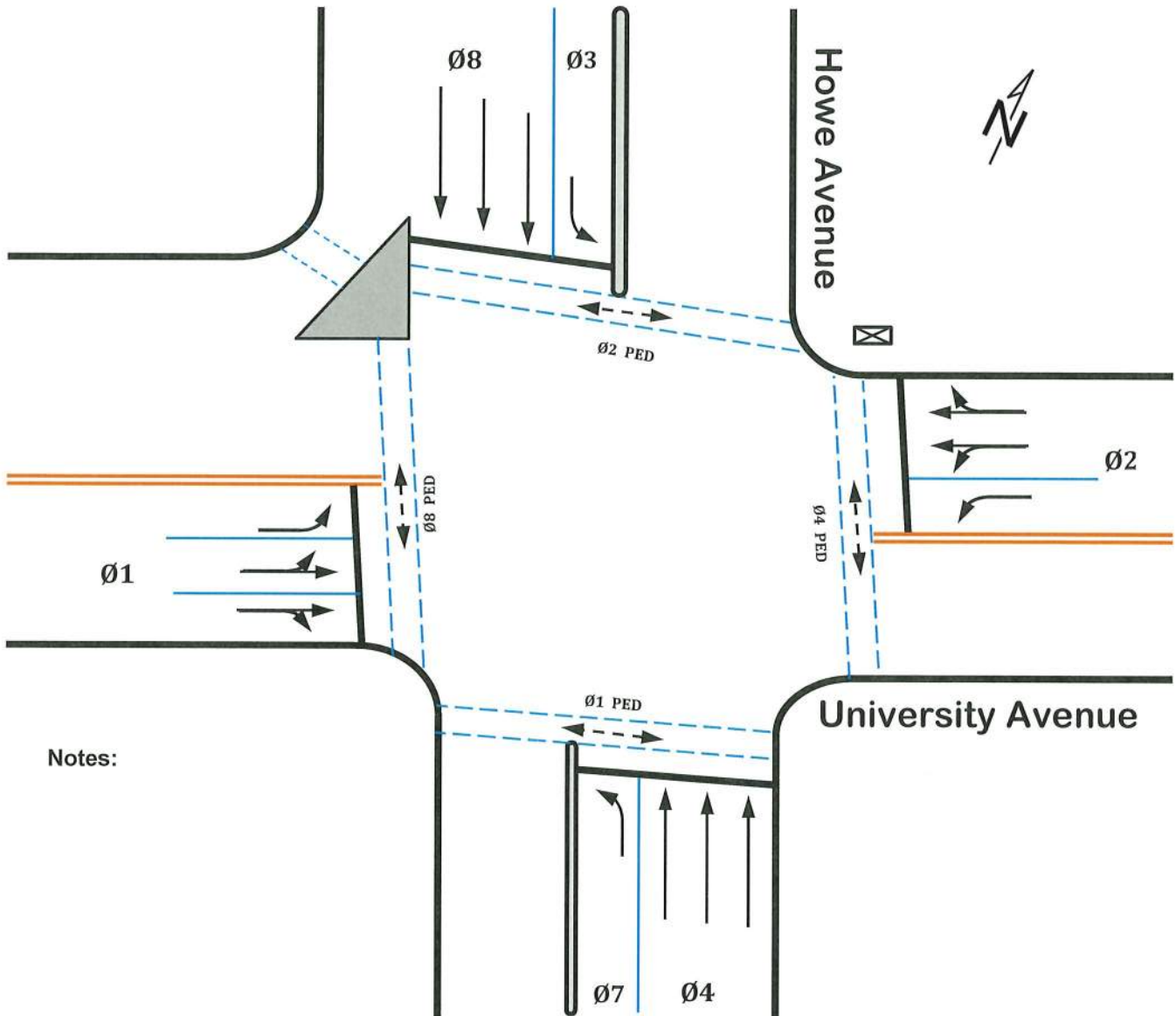
System _____

IP Address: _____

Prepared by: cel

Approved by: [Signature]

Date Implemented: 12-7-20



Notes:

$\overrightarrow{\hspace{1cm}}$ $\overleftarrow{\hspace{1cm}}$	$\overleftrightarrow{\hspace{1cm}}$ $\overleftarrow{\hspace{1cm}}$	\curvearrowright	\uparrow \downarrow
		\curvearrowleft	\uparrow \downarrow

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Phase Timing

12/7/2020 1:15:19 PM

[illegible]

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Phase Options

12/7/2020 1:15:19 PM

Phases	1-8								9-16							
Min Recalls				4				8								
Max Recalls																
Ped Recalls																
Soft Recall																
Dual Entry																
Red Rest																
Walk Rest																
Walk Expand																
Ped Recycle																
Sim Ped Term																
PC Thru Clr																
Guar Passage																
No Simult Gap																
Yel Lock																
Red Lock																
PhaseNext Lock	1	2	3	4				7	8							
No Term Call																
Cond Serv																
CS Enable																
Cond Reserve																
Reserve																
Veh Omit																
Ped Omit																
Perm Phase																
Protect Calls																
Protect Calls 2																
Flash Entry																
Flash Exit																
Flash Exit Yel																
Flash Exit Red																
Ped Scramble																
No Min Yel																
No Min Red Rev																
Max Scramble Walk																
Flash Yellow																
Flash FYA																
CNA 1																
CNA 2																

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Phase Startup Options

12/7/2020 1:15:19 PM

Startup Flash	<input type="text" value="0"/>	Mode	<input type="text" value="Red->Yel"/>
Startup All Red	<input type="text" value="6"/>	Yellow	<input type="text" value="0.0"/>

Phases	1-8								9-16							
Startup Phases				4				8								
Startup Yellow				4				8								
Startup Red																
Startup No Walk																
Startup Next	1															
Startup Yel Fls																
Startup FYA																
No Veh Call																
No Ped Call																

Phase Startup Timing

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Start Walk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Max Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Unit

Red Revert	<input type="text" value="0.0"/>	Ped Protect	<input type="text" value="No"/>	AdvFls in Flash	<input type="text" value="No"/>
------------	----------------------------------	-------------	---------------------------------	-----------------	---------------------------------

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Ring Sequence / Conflicting Phases

12/7/2020 1:15:19 PM

Ringgroup 1

[illegible]

Ringgroup 2

Custom Sequences

[illegible]

Conflicting Phases

[illegible]

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Coordination Options

12/7/2020 1:15:19 PM

Sync Time	00:00	RTC Set Time	00:00	
Transition Mode	Best 2	Ped Adjust	None	
Trans Short %	25	Trans Long %	35	
Offset Reference	Lag Grn	Short Cycles	0	
Dual Entry	Strict	Overlap F/O	Disabled	
Master Sync Mode	RTC	Master Sync Length	0	
Adapt Thresh	3	Adapt Step	2	
External Plan Max	0			
Hardwire No Match	Sched	Hardwire Sync Fail	0	
Override Omit/Recall	No			
Phases	1-8	9-16		
No Trans Recall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trans Ped Recall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trans Phases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Coordination Pattern 1

12/7/2020 1:15:19 PM

Cycle Ringgroup 1 - Offset 1 Offset 2 Offset 3

Ringgroup 2 - Offset 1 Offset 2 Offset 3

[illegible]

Permissive Mode	Reservice	Max Mode	Max Inh	Walk Rest	Yield
-----------------	-----------	----------	---------	-----------	-------

Ped Permissive	Yield
----------------	-------

Permissive Limit	0
------------------	---

Perm 2 Start

0

Perm 2 End

0

Alt Sequence

--	--	--	--	--	--	--	--

TOD Link	0
----------	---

Phases/Overlaps	1-8	9-16
-----------------	-----	------

Coord Phases	4	8
No Extend		
Float Enable		
Veh = Ped Perm		
Walk Rest		
Ped Recall		
Cond Ped Call		
Olap Ped Recall		
Ped Recycle		
Min Recall		
Max Recall		
Cond Serv		
Reservice		
Veh Omit		
Ped Omit		
Olap Omit		
Perm Reserve		
Perm 1 Phases		
Max Inhibit		
FYA Omit		
Adapt Phases		

Trans Mode	Default
------------	---------

Offset Ref	Default
------------	---------

Adaptive Mode	Disabled
---------------	----------

Disable Priority

--	--	--	--	--	--	--	--

[illegible]Priority Alt Seq

--	--	--	--	--	--	--	--

Reserve Extend							
----------------	--	--	--	--	--	--	--

[illegible]

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Coordination Pattern 2

12/7/2020 1:15:19 PM

Cycle Ringgroup 1 - Offset 1 Offset 2 Offset 3

Ringgroup 2 - Offset 1 Offset 2 Offset 3

[illegible]

Permissive Mode	Reservice	Max Mode	Max Inh	Walk Rest	Yield
-----------------	-----------	----------	---------	-----------	-------

Ped Permissive	Yield
----------------	-------

Permissive Limit	0
------------------	---

Perm 2 Start

0

Perm 2 End

0

Alt Sequence

--	--	--	--	--	--	--	--

TOD Link

0

Phases/Overlaps	1-8				9-16				
Coord Phases			4		8				
No Extend									
Float Enable									
Veh = Ped Perm									
Walk Rest									
Ped Recall									
Cond Ped Call									
Olap Ped Recall									
Ped Recycle									
Min Recall									
Max Recall									
Cond Serv									
Reservice									
Veh Omit									
Ped Omit									
Olap Omit									
Perm Reserve									
Perm 1 Phases									
Max Inhibit									
FYA Omit									
Adapt Phases									

Trans Mode	Default
------------	---------

Offset Ref	Default
------------	---------

Adaptive Mode	Disabled
---------------	----------

Disable Priority

--	--	--	--	--	--	--	--

[illegible]

Priority Alt Seq

--	--	--	--	--	--	--	--

Reserve Extend							
----------------	--	--	--	--	--	--	--

[illegible]

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Preempt Inputs

12/7/2020 1:15:19 PM

Preempt Input	1	2	3	4	5	6	7	8	9	10
Delay	0	0	0	0	0	0	0	0	0	0
Checkout Limit	0	0	0	0	0	0	0	0	0	0
Locked	No	No	No	No	No	No	No	No	No	No
Interlock	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Input Number	0	0	3	4	5	6	0	0	0	0
Input Priority	All	All	All	All	All	All	All	All	All	All
Delay Mode	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp	Inp

Preempt Priority

Preempt	1	2	3	4	5	6	7	8	9	10
Priority	0	0	0	0	0	0	0	0	0	0

Remote Preemption

Remote Preempt	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8
Int Number	0	0	0	0	0	0	0	0
PE Number	0	0	0	0	0	0	0	0
Mode	Dis	Dis	Dis	Dis	Dis	Dis	Dis	Dis
Slack	0	0	0	0	0	0	0	0
Travel Time	0	0	0	0	0	0	0	0
Alt TT 1	0	0	0	0	0	0	0	0
Alt TT 2	0	0	0	0	0	0	0	0
Alt TT 3	0	0	0	0	0	0	0	0
Alt TT 4	0	0	0	0	0	0	0	0
Alt TT 5	0	0	0	0	0	0	0	0
Alt TT 6	0	0	0	0	0	0	0	0
Alt TT 7	0	0	0	0	0	0	0	0

346 - Howe & University

Preempt 3 (Configuration)

12/7/2020 1:15:19 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="3"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 3 (Timing/Phases/Overlaps)

	1-8	9-16		
Phases/Overlaps			Start Green	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>	Start Walk	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	Start Ped Clr	<input type="text" value="0"/>
TC1r 1 Veh Phases	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>
TC1r 1 Ped Phases	<input type="text"/>	<input type="text"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Olap	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>
TC1r 1 Olap Ped	<input type="text"/>	<input type="text"/>	TC1 Max	<input type="text" value="0"/>
TC1r 2 Veh Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>
TC1r 2 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 2 Olap	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>
TC1r 2 Olap Ped	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="6"/>
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Min Duration	<input type="text" value="0"/>
Dwell Veh Phases	<input type="text" value="1"/>	<input type="text"/>	Dwell Extend	<input type="text" value="3"/>
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	Max Dwell	<input type="text" value="55"/>
Dwell Olap	<input type="text"/>	<input type="text"/>	Max Call	<input type="text" value="0"/>
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>
Exit Veh Phases	<input type="text" value="1"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>
Exit Ped Phases	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>
Exit Olap	<input type="text"/>	<input type="text"/>		
Exit Olap Ped	<input type="text"/>	<input type="text"/>	Phases/Overlaps	
Zero Phase Walk	<input type="text" value="2"/>	<input type="text" value="4"/>	TC1r 1 FR Olap	<input type="text"/>
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>	TC1r 2 FR Olap	<input type="text"/>
Zero Phase Green	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>
Zero Olap Walk	<input type="text"/>	<input type="text"/>	TC1r 1 FYA	<input type="text"/>
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>	TC1r 2 FYA	<input type="text"/>
Zero Olap Green	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>
Dwell-Phase Red	<input type="text"/>	<input type="text"/>		
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>		
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>		
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>		
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>		
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>		
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>		

346 - Howe & University

Preempt 4 (Configuration)

12/7/2020 1:15:19 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="4"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 4 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>			Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TClr 1 Veh Phases	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TClr 1 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TClr 1 Olap	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>		
TClr 1 Olap Ped	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="6"/>	Min Duration	<input type="text" value="0"/>
TClr 2 Veh Phases	<input type="text"/>	<input type="text"/>	Dwell Extend	<input type="text" value="3"/>		
TClr 2 Ped Phases	<input type="text"/>	<input type="text"/>	Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TClr 2 Olap	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>		
TClr 2 Olap Ped	<input type="text"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text" value="2"/>	<input type="text"/>	Phases/Overlaps	1-8	9-16	
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	TClr 1 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap	<input type="text"/>	<input type="text"/>	TClr 2 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>	<input type="text"/>	
Exit Veh Phases	<input type="text" value="2"/>	<input type="text"/>	TClr 1 FYA	<input type="text"/>	<input type="text"/>	
Exit Ped Phases	<input type="text"/>	<input type="text"/>	TClr 2 FYA	<input type="text"/>	<input type="text"/>	
Exit Olap	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>	<input type="text"/>	
Exit Olap Ped	<input type="text"/>	<input type="text"/>				
Zero Phase Walk	<input type="text" value="2"/>	<input type="text" value="4"/>				
Zero Phase Ped Clr	<input type="text" value="6"/>	<input type="text" value="8"/>				
Zero Phase Green	<input type="text"/>	<input type="text"/>				
Zero Olap Walk	<input type="text"/>	<input type="text"/>				
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Olap Green	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>				
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>				

346 - Howe & University

Preempt 5 (Configuration)

12/7/2020 1:15:19 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="5"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 5 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>			Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TClr 1 Veh Phases	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TClr 1 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>	Exit Yellow	<input type="text" value="0.0"/>
TClr 1 Olap	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>		
TClr 1 Olap Ped	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="6"/>	Min Duration	<input type="text" value="0"/>
TClr 2 Veh Phases	<input type="text"/>	<input type="text"/>	Dwell Extend	<input type="text" value="3"/>		
TClr 2 Ped Phases	<input type="text"/>	<input type="text"/>	Max Dwell	<input type="text" value="55"/>	Max Call	<input type="text" value="0"/>
TClr 2 Olap	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>		
TClr 2 Olap Ped	<input type="text"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>		
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>		
Dwell Veh Phases	<input type="text" value="3"/>	<input type="text" value="8"/>	Phases/Overlaps	1-8	9-16	
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	TClr 1 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap	<input type="text"/>	<input type="text"/>	TClr 2 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>	<input type="text"/>	
Exit Veh Phases	<input type="text" value="3"/>	<input type="text" value="8"/>	TClr 1 FYA	<input type="text"/>	<input type="text"/>	
Exit Ped Phases	<input type="text"/>	<input type="text"/>	TClr 2 FYA	<input type="text"/>	<input type="text"/>	
Exit Olap	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>	<input type="text"/>	
Exit Olap Ped	<input type="text"/>	<input type="text"/>				
Zero Phase Walk	<input type="text" value="2"/>	<input type="text" value="4"/>				
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Phase Green	<input type="text"/>	<input type="text"/>				
Zero Olap Walk	<input type="text"/>	<input type="text"/>				
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Olap Green	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>				
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>				

346 - Howe & University

Preempt 6 (Configuration)

12/7/2020 1:15:19 PM

Enabled	<input type="text" value="Yes"/>	Dwell Mode	<input type="text" value="Normal"/>	Output Mode	<input type="text" value="All"/>
Output2 Mode	<input type="text" value="All"/>	Fail Action	<input type="text" value="Preempt Off"/>	Exit Mode	<input type="text" value="Normal"/>
Override Flash	<input type="text" value="No"/>	Change Phasenext	<input type="text" value="Yes"/>		

	1-8	9-16		1-8	
Enable Phases	<input type="text"/>	<input type="text"/>	LRV Disable	<input type="text"/>	Max <input type="text" value="0"/>
Preempt Inputs	<input type="text" value="6"/>	<input type="text"/>	LRV Dwell Flash	<input type="text"/>	
			LRV Omit	<input type="text"/>	Delay <input type="text" value="0"/>
			LRV No Yel	<input type="text"/>	

Preempt 6 (Timing/Phases/Overlaps)

Phases/Overlaps	1-8	9-16	Start Green	<input type="text" value="0"/>	Start Walk	<input type="text" value="0"/>
Omit Olap Grn Clr	<input type="text"/>	<input type="text"/>	Track Clear 1	<input type="text" value="0"/>	Start Ped Clr	<input type="text" value="0"/>
Phs EWlk to Grn	<input type="text"/>	<input type="text"/>	TC1 Extend	<input type="text" value="0"/>	Track Clear 2	<input type="text" value="0"/>
TC1r 1 Veh Phases	<input type="text"/>	<input type="text"/>	Exit Ped Clr	<input type="text" value="0"/>	TC1 Max	<input type="text" value="0"/>
TC1r 1 Ped Phases	<input type="text"/>	<input type="text"/>	Exit Red	<input type="text" value="0.0"/>	Exit Yellow	<input type="text" value="0.0"/>
TC1r 1 Olap	<input type="text"/>	<input type="text"/>	Min Dwell	<input type="text" value="6"/>	Min Duration	<input type="text" value="0"/>
TC1r 1 Olap Ped	<input type="text"/>	<input type="text"/>	Dwell Extend	<input type="text" value="3"/>	Max Dwell	<input type="text" value="55"/>
TC1r 2 Veh Phases	<input type="text"/>	<input type="text"/>	Reserve Inh Same	<input type="text" value="0"/>	Max Call	<input type="text" value="0"/>
TC1r 2 Ped Phases	<input type="text"/>	<input type="text"/>	Reserve Inh All	<input type="text" value="0"/>		
TC1r 2 Olap	<input type="text"/>	<input type="text"/>	Delay	<input type="text" value="0"/>		
TC1r 2 Olap Ped	<input type="text"/>	<input type="text"/>				
Init Dwell Phases	<input type="text"/>	<input type="text"/>	Phases/Overlaps	1-8	9-16	
Dwell Veh Phases	<input type="text" value="4"/>	<input type="text" value="7"/>	TC1r 1 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Ped Phases	<input type="text"/>	<input type="text"/>	TC1r 2 FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap	<input type="text"/>	<input type="text"/>	Dwell FR Olap	<input type="text"/>	<input type="text"/>	
Dwell Olap Ped	<input type="text"/>	<input type="text"/>	TC1r 1 FYA	<input type="text"/>	<input type="text"/>	
Exit Veh Phases	<input type="text" value="4"/>	<input type="text" value="7"/>	TC1r 2 FYA	<input type="text"/>	<input type="text"/>	
Exit Ped Phases	<input type="text"/>	<input type="text"/>	Dwell FYA	<input type="text"/>	<input type="text"/>	
Exit Olap	<input type="text"/>	<input type="text"/>				
Exit Olap Ped	<input type="text"/>	<input type="text"/>				
Zero Phase Walk	<input type="text"/>	<input type="text"/>				
Zero Phase Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Phase Green	<input type="text"/>	<input type="text"/>				
Zero Olap Walk	<input type="text"/>	<input type="text"/>				
Zero Olap Ped Clr	<input type="text"/>	<input type="text"/>				
Zero Olap Green	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red	<input type="text"/>	<input type="text"/>				
Dwell-Phase Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Phase Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Red Flash	<input type="text"/>	<input type="text"/>				
Dwell-Olap Yel Flash	<input type="text"/>	<input type="text"/>				
Dwell-Ped Dark	<input type="text"/>	<input type="text"/>				
Dwell-Olap Ped Dark	<input type="text"/>	<input type="text"/>				

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TOD Pattern Events

12/7/2020 1:15:19 PM

	Time	DOW							Holidays							Mode	Pattern	Offset
Event 1	07:00		M	T	W	T	F									Sched	1	1
Event 2	09:30	S	M	T	W	T	F	S								Sched	2	1
Event 3	14:00	S	M	T	W	T	F	S								Sched	3	1
Event 4	19:00	S	M	T	W	T	F	S								Free	0	0
Event 5	00:00															Sched	0	0
Event 6	00:00															Sched	0	0
Event 7	00:00															Sched	0	0
Event 8	00:00															Sched	0	0
Event 9	00:00															Sched	0	0
Event 10	00:00															Sched	0	0
Event 11	00:00															Sched	0	0
Event 12	00:00															Sched	0	0
Event 13	00:00															Sched	0	0
Event 14	00:00															Sched	0	0
Event 15	00:00															Sched	0	0
Event 16	00:00															Sched	0	0
Event 17	00:00															Sched	0	0
Event 18	00:00															Sched	0	0
Event 19	00:00															Sched	0	0
Event 20	00:00															Sched	0	0
Event 21	00:00															Sched	0	0
Event 22	00:00															Sched	0	0
Event 23	00:00															Sched	0	0
Event 24	00:00															Sched	0	0
Event 25	00:00															Sched	0	0
Event 26	00:00															Sched	0	0
Event 27	00:00															Sched	0	0
Event 28	00:00															Sched	0	0
Event 29	00:00															Sched	0	0
Event 30	00:00															Sched	0	0
Event 31	00:00															Sched	0	0
Event 32	00:00															Sched	0	0

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Load Switch Outputs (BIU 1)

12/7/2020 1:15:19 PM

	LS 1	LS 2	LS 3	LS 4	LS 5	LS 6	LS 7	LS 8
Red Function	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed	VehRed
Red Index	1	2	3	4	5	6	7	8
Yellow Function	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel	VehYel
Yellow Index	1	2	3	4	5	6	7	8
Green Function	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn	VehGrn
Green Index	1	2	3	4	5	6	7	8

Load Switch Outputs (BIU 2)

	LS 9	LS 10	LS 11	LS 12	LS 13	LS 14	LS 15	LS 16
Red Function	DntWlk	DntWlk	DntWlk	DntWlk	VehRed	VehRed	VehRed	VehRed
Red Index	2	4	1	8	0	0	0	0
Yellow Function	PedClr	PedClr	PedClr	PedClr	VehRed	VehRed	VehRed	VehRed
Yellow Index	0	0	0	0	0	0	0	0
Green Function	Walk	Walk	Walk	Walk	VehRed	VehRed	VehRed	VehRed
Green Index	2	4	1	8	0	0	0	0

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T/F Outputs (BIU 1)

Output Index	I/O 10	I/O 11	I/O 12	I/O 13
	VehRed 0	VehRed 0	VehRed 0	VehRed 0

T/F Outputs (BIU 2)

Output Index	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0

T/F Outputs (BIU 3)

Output Index	OUT 1		OUT 2		OUT 3		OUT 4		OUT 5		OUT 6		OUT 7		OUT 8	
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0
Output Index	OUT 9		OUT 10		OUT 11		OUT 12		OUT 13		OUT 14		OUT 15		I/O 1	
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0
Output Index	I/O 2		I/O 3		I/O 4		I/O 5		I/O 6							
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0						

T/F Outputs (BIU 4)

Output Index	OUT 1		OUT 2		OUT 3		OUT 4		OUT 5		OUT 6		OUT 7		OUT 8	
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0
Output Index	OUT 9		OUT 10		OUT 11		OUT 12		OUT 13		OUT 14		OUT 15		I/O 1	
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0
Output Index	I/O 2		I/O 3		I/O 4		I/O 5		I/O 6		I/O 7		I/O 8		I/O 9	
	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0	VehRed 0

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Detector Inputs (BIU 9)

12/7/2020 1:15:19 PM

Function Index	Det 1		Det 2		Det 3		Det 4		Det 5		Det 6		Det 7		Det 8	
	VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet	
	1		2		3		4		0		0		0		0	
Function Index	Det 9		Det 10		Det 11		Det 12		Det 13		Det 14		Det 15		Det 16	
	VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet	
	None		None		None		None		None		None		None		None	
	0		0		0		0		13		14		15		0	

Detector Inputs (BIU 10)

Function Index	Det 17		Det 18		Det 19		Det 20		Det 21		Det 22		Det 23		Det 24	
	VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet	
	None		None		None		None		None		None		None		None	
	17		18		0		0		21		22		23		0	
Function Index	Det 25		Det 26		Det 27		Det 28		Det 29		Det 30		Det 31		Det 32	
	VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet		VehDet	
	None		None		None		None		None		None		None		None	
	25		26		0		0		29		30		0		0	

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Detector Inputs (BIU 11)

12/7/2020 1:15:19 PM

Function Index	Det 33	Det 34	Det 35	Det 36	Det 37	Det 38	Det 39	Det 40
	VehDet 33	VehDet 34	None 0	None 0	None 0	None 0	None 0	None 0
Function Index	Det 41	Det 42	Det 43	Det 44	Det 45	Det 46	Det 47	Det 48
	None 0	None 0	VehDet 43	VehDet 44	None 0	None 0	None 0	VehDet 48

Detector Inputs (BIU 12)

Function Index	Det 49	Det 50	Det 51	Det 52	Det 53	Det 54	Det 55	Det 56
	VehDet 49	None 0	VehDet 51	None 0	None 0	None 0	None 0	None 0
Function Index	Det 57	Det 58	Det 59	Det 60	Det 61	Det 62	Det 63	Det 64
	VehDet 57	None 0	VehDet 59	None 0	None 0	None 0	VehDet 63	None 0

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T/F Inputs (BIU 1)

12/7/2020 1:15:19 PM

Input Index	I/O 14	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21
	None 0	None 0	VehDet 57	VehDet 51	AutoFlash 1	None 0	None 0	None 0
Input Index	I/O 22	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5
	None 0	ExtStr 5	None 0	StopTm 5	StopTm 5	VehDet 33	VehDet 43	VehDet 49
Input Index	IN 6	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4	
	VehDet 59	VehDet 41	None 0	None 0	PedDet 2	PedDet 0	PedDet 4	

T/F Inputs (BIU 2)

Input Index	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23
	Preempt 3	Preempt 4	Preempt 5	Preempt 6	VehDet 35	None 0	None 0	None 0
Input Index	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7
	None 0	None 0	None 0	LocFlash 1	MMUFlash 1	None 0	None 0	None 0
Input Index	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4			
	None 0	None 0	PedDet 6	PedDet 0	PedDet 8			

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T/F Inputs (BIU 3)

12/7/2020 1:15:19 PM

Input Index	I/O 7	I/O 8	I/O 9	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	I/O 15	I/O 16	I/O 17	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	I/O 23	I/O 24	IN 1	IN 2	IN 3	IN 4	IN 5	IN 6
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	IN 7	IN 8	OPTO 1	OPTO 2	OPTO 3	OPTO 4		
	None 0	None 0	None 0	None 0	None 0	None 0		

T/F Inputs (BIU 4)

Input Index	I/O 10	I/O 11	I/O 12	I/O 13	I/O 14	I/O 15	I/O 16	I/O 17
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	I/O 18	I/O 19	I/O 20	I/O 21	I/O 22	I/O 23	I/O 24	IN 1
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8	OPTO 1
	None 0	None 0	None 0	None 0	None 0	None 0	None 0	None 0
Input Index	OPTO 2	OPTO 3	OPTO 4					
	None 0	None 0	None 0					

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Cabinet / MMU Configuration

12/7/2020 1:15:19 PM

Cabinet Type	TS2-2N	MMU Channel Ignore	1-8	9-16
MMU Disable	No	Det BIU 1-No Fail Call		
		Det BIU 2-No Fail Call		
		Alt LS Flash		
		Alt Phase Flash	2 4 6 8	
		Alt Overlap Flash		
		Alt LRV Flash		

CMU Channel Ignore	1-8	9-16
	1 2 3 4 5 6 7 8	9 0 1 2 3 4 5 6
	17-24	25-32
	7 8 9 0 1 2 3 4	5 6 7 8 9 0 1 2
Det IASM1-Det Diag	1-8	9-16
	17-24	
Det IASM2-Det Diag	1-8	9-16
	17-24	

Phase / Overlap Outputs

	Phase	Overlap
1	Normal	Normal
2	Normal	Normal
3	Normal	Normal
4	Normal	Normal
5	Normal	Normal
6	Normal	Normal
7	Normal	Normal
8	Normal	Normal
9	Normal	Normal
10	Normal	Normal
11	Normal	Normal
12	Normal	Normal
13	Normal	Normal
14	Normal	Normal
15	Normal	Normal
16	Normal	Normal

LRV Outputs

	LRV
1	2 Head
2	2 Head
3	2 Head
4	2 Head
5	2 Head
6	2 Head
7	2 Head
8	2 Head

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Vehicle Detector 1

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

Vehicle Detector 2

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

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Vehicle Detector 3

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

Vehicle Detector 4

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

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Vehicle Detector 23

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8						9-16						
Call Phases							8						
Yellow Lock Phases													
Red Lock Phases													
Extend Phases							8						
XSwitch Phases													
Bike Call Phases													

Vehicle Detector 29

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases	1-8					9-16				
Call Phases			4							
Yellow Lock Phases										
Red Lock Phases										
Extend Phases			4							
XSwitch Phases										
Bike Call Phases										

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Vehicle Detector 30

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode

None

 Max Pres

0

 No Act

0

 Erratic

0

 Fail Time

0

Delay 2	0.0
---------	-----

Phases

1-8

9-16

Call Phases

4

Yellow Lock Phases

Red Lock Phases

Extend Phases

4

XSwitch Phases

Bike Call Phases

Vehicle Detector 33

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

Phases

1-8

9-16

Call Phases

1

Yellow Lock Phases

Red Lock Phases

Extend Phases

1

XSwitch Phases

Bike Call Phases

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Vehicle Detector 34

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

Vehicle Detector 43

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

346 - Howe & University

Vehicle Detector 44

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

[illegible]

Vehicle Detector 48

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

346 - Howe & University

Vehicle Detector 49

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

	1-8						9-16					
Call Phases			3									
Yellow Lock Phases												
Red Lock Phases												
Extend Phases			3									
XSwitch Phases												
Bike Call Phases												

Vehicle Detector 51

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2	0.0
---------	-----

Phases	1-8						9-16						
Call Phases							8						
Yellow Lock Phases													
Red Lock Phases													
Extend Phases							8						
XSwitch Phases													
Bike Call Phases													

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Vehicle Detector 57

12/7/2020 1:15:19 PM

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2

0.0

[illegible]

Vehicle Detector 59

Delay Extend Carryover Queue Limit

Mode	No Disc	Added	Disabled	System	Disabled
------	---------	-------	----------	--------	----------

Fail Mode	None	Max Pres	0	No Act	0	Erratic	0	Fail Time	0
-----------	------	----------	---	--------	---	---------	---	-----------	---

Delay 2 [illegible]

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Control / Config

12/7/2020 1:15:19 PM

Pattern Mode	<input type="text" value="Sched"/>				
Manual Pattern	<input type="text" value="0"/>	Manual Offset	<input type="text" value="0"/>		
Stop Time Input	<input type="text" value="Enabled"/>				
Aux Switch	<input type="text" value="StopTm"/>	<input type="text" value="5"/>			
DLS Mode	<input type="text" value="D4"/>	Time Zone	<input type="text" value="Pac (UTC-8)"/>	GPS Thresh	<input type="text" value="0"/>
Password Timeout	<input type="text" value="5"/>				
Maint Phs Recalls	<input type="text" value="1-8"/>	<input type="text" value="9-16"/>			
Maint Ped Recalls	<input type="text" value="1-8"/>	<input type="text" value="9-16"/>			

Serial 1 Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
Serial Rebroadcast	<input type="text" value="Disabled"/>	Response	<input type="text" value="None"/>

Serial 2 Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
---------------------	---------------------------------------	----------------	------------------------------------

Ethernet Port Configuration

Broadcast Plan/Sync	<input type="text" value="Disabled"/>	Broadcast Time	<input type="text" value="00:00"/>
Serial Rebroadcast	<input type="text" value="Disabled"/>		

Peer Configuration

Peer 1	<input type="text" value="0"/>
Peer 2	<input type="text" value="0"/>
Peer 3	<input type="text" value="0"/>
Peer 4	<input type="text" value="0"/>
Peer 5	<input type="text" value="0"/>
Peer 6	<input type="text" value="0"/>
Peer 7	<input type="text" value="0"/>
Peer 8	<input type="text" value="0"/>

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Restricted Data

12/7/2020 1:15:19 PM

(Serial Ports)

Serial Port 1

Baud Rate

RTS On

RTS Off

Serial Port 2

Baud Rate

RTS On

RTS Off

(Ethernet)

IP Address

Netmask

Broadcast Address

Gateway

Gateway 2

Gateway 3

Gateway 4

Admin IP

Leases

Admin Netmask

Port

Reply Mode

Broadcast Port

Response

Time Port

(General)

Controller Address

Timeout

Peer Address

Timeout

Remote Calls

Remote Preempt

Remote Soft Preempt

Remote Priority

Remote MCE

MCE Max

CITY OF SACRAMENTO

DETECTION SCHEDULE

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	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function			
					Extend	Delay	Passage	Notes
BIU 2	Ø1	1						
	Ø1	2						
	Ø1	3	Mid	WB	x		x	
	Ø1	4						
	Ø6	5						
	Ø6	6						
	Ø6	7						
	Ø6	8						
	Ø5	9						
	Ø5	10						
	Ø5	11						
	Ø5	12						
	Ø2	13						
	Ø2	14						
	Ø2	15						
	Ø2	16						
	Ø3	17						
	Ø3	18						
	Ø3	19						
	Ø3	20						
	Ø8	21						
	Ø8	22	Mid	SB	x		x	
	Ø8	23	Mid	SB	x		x	
	Ø8	24						
	Ø7	25						
	Ø7	26						
	Ø7	27						
	Ø7	28						
	Ø4	29	Rear	NB	x		x	
	Ø4	30						
	Ø4	31						
	Ø4	32						
BIU 3	Ø1	33	Front	EB	x		x	
	Ø1	34	Right	EB	x		x	
	Ø6	35						
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6	39						
	Ø6	40						
	Ø5	41						
	Ø5	42						
	Ø2	43	Front	WB	x		x	
	Ø2	44	Front	WB	x		x	
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48	Right	WB	x		x	
BIU 4	Ø3	49	Left	SB	x		x	
	Ø3	50						
	Ø8	51	Front	SB	x		x	
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
	Ø8	56						
	Ø7	57	Left	NB	x		x	
	Ø7	58						
	Ø4	59	Front	NB	x		x	
	Ø4	60						
	Ø4	61						
	Ø4	62						
	Ø4	63						
	Ø4	64						

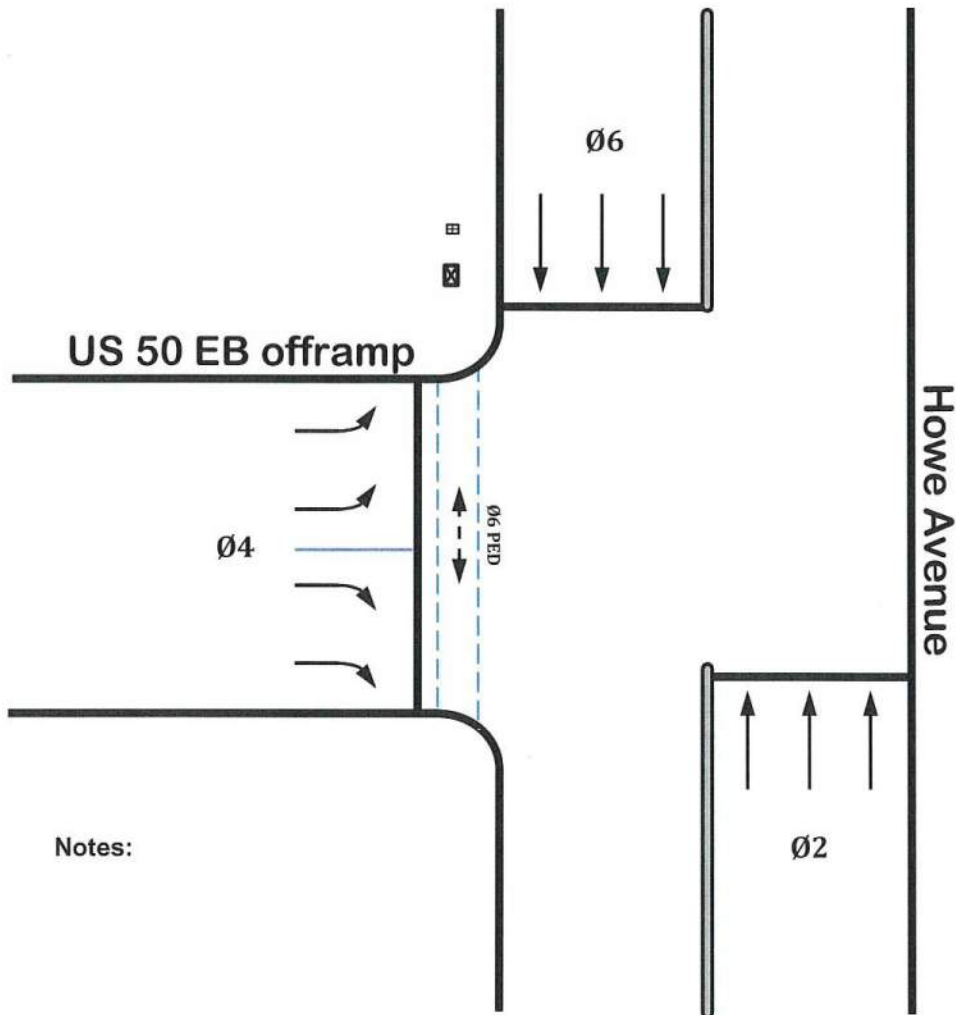
ECONOLITE ASC/2

TRAFFIC SIGNAL CONTROLLED PROGRAM CHART

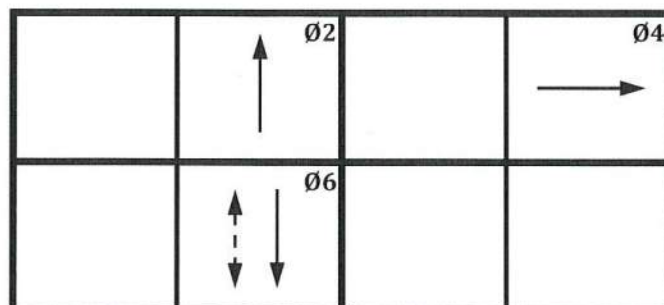
N/S Howe Avenue E/W US 50 EB offramp

Intersection #: 350 System: _____ IP Address: _____

Device ID: _____ Channel: _____ Drop #: _____



Notes:



CITY OF SACRAMENTO

PHASE TIMING

Prepared by: aelApproved by: [Signature]Date Implemented: 3-9-20**Controller Timing Data****Key: (F1)-2-1**

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Min Green		7		11		9						
Bike Green												
CndSrv MinGrn												
Walk						7						
Ped Clr						17						
Veh Ext		2.0		2.0		2.0						
Veh Ext 2												
Max Ext												
Max1		30		30		30						
Max2												
Max3												
Det Max												
Yellow		4.3		3.5		4.3						
Red Clr		1.0		1.0		1.0						
Red Rvt		2.0		2.0		2.0						
Act B4 Init												
Sec/Actuation												
Max Initial												
Time B4 Reduct												
Cars Wt												
Time To Reduce												
Min Gap												

Controller Recall Data**Key: (F1)-2-4**

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Locking Memory												
Vehicle Recall												
Ped Recall												
Recall to Max												
Soft Recall												
Don't Rest Here												
Ped Dark N/Call												

Controller Option Data**Key: (F1)-2-9**

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Guar Passage												
NonActuated I												
NonActuated II												
Dual Entry		2				6						
Cond Service												
Cond Reservice												
Rest in Walk												
Flashing Walk												
Five Section Left	5-2:				7-4:				1-6:			
Turn Heads	3-8:				11-10:				9-12:			
Dual Entry	ON		Backup Protection Grp 1				OFF					
Cond Service Enable	OFF		Backup Protection Grp 2				OFF					
Cond Service Det X Switch	OFF		Backup Protection Grp 3				OFF					
Ped Clr Protect	ON		Simul Gap Grp 1				OFF					
Spec Pre OVL Flash	OFF		Simul Gap Grp 2				OFF					
Lock Det in Red	OFF		Simul Gap Grp 3				OFF					
Reserved	OFF		unitBackup Time				OFF					
Reserved	OFF		unitRed Revert				OFF					

Controller Start/Flash Data**Key: (F1)-2-6**

Phase	1	2	3	4	5	6	7	8	9	10	11	12
ø's Startup		2				6						
Entry Rem Flash		2				6						
Exit Rem Flash		2				6						
Rem Flash Yello												
Flsh Together ø		2		4		6		8		10		12
Flsh Tgther OV	A:		B:		C:		D:					
Startup Intvl Rng1	Yellow											
Startup Intvl Rng2	Yellow											
Power Start All Red	6 sec											
Power Start Flash												
Remote Flash Options												
Out of Flash Yellow	Yes											
Out of Flash All Red	No											
Minimum Recall	Yes											
Spare	No											
Flash Thru Ld Switch	No											
Cycle Thru Phases	No											

CONFIGURATION

Controller Sequence

Key: (F1)-1-1

Priority	1	2	3	4	5	6	7	8	9	10	11	12
Ring 1	1	2	3	4	5	6	7	8	9	10	11	12
Ring 2	5	6	7	8	9	10	11	12	1	2	3	4
CG Barrier		^		^		^						

Phases in Use

Key: (F1)-1-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Phases in Use		2		4		6						
Exclusive Ped												

SDLC Options

Key: (F1)-1-4

BIU Number	1	2	3	4	5	6	7	8
Term & Facil								
Detector Rack								
Type 2 Runs as Type 1								
MMU Disable			X					
Diagnostic Enable								
Peer to Peer Enable								
Peer to Peer Addresses								
1) 255	2) 255	3) 255	4) 255	5) 255				
6) 255	7) 255	8) 255	9) 255	10) 255				

NEW CONTROLLER SHOULD BE DEFAULTED BEFORE INSTALLATION

To Default Controller: (F1)-8-2 Select All Press ENTER

(F1)-8-1-3 Select All Press ENTER

Ped Timing Carryover

Key: (F1)-2-3

Phase	Carryover
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0

Port 2

Key: (F1)-1-5

Port 2 Protocol	TERMINL
Port 2 Enable	NO
Data Rate (bps)	9600
Data, Parity, Stop	8, N, 1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Sgl Flg Enab	NO
NTCIP BackUp Tim	0
NTCIP Drop-Out Time	0
Port2 Drop-Out Tim	0
NTCIP RTS Timing	NO
NTCIP RTS to CTS Delay	0
NTCIP RTS TurnOff Delay	0
NTCIP Early RTS	NO

Port 3

Key: (F1)-1-6

Port 3 Protocol	TELEM
Port 3 Enable	YES
Port 3 millise Timing	NO
Port 3 RTS to CTS Delay	0
Port 3 RTS TurnOff Delay	0
Duplex -Half or Full	FULL
Modem Data Rate (bps)	1200
Data, Parity, Stop	8, N, 1
Telemetry Address	1
System Detector 9-16 Add	
Telemetry Response Delay	1
NTCIP Address	0
NTCIP Grp Address	0
NTCIP Resp Delay	0
NTCIP Single Flag Enable	NO
NTCIP BackUp Time	0
Port 3 Drop-Out Time	0
NTCIP Early RTS	NO

Options

Key: (F1)-1-8

Supervisor Access Code	0
Data Change Access Code	0
Key Click Enable	NO
Backlight Enable	YES
Request Download	NO

CITY OF SACRAMENTO

COORDINATION PATTERN TABLES

Coordination Pattern Data

Key: (F1)-3-4

PLAN FORMAT												
Cycle Length	60	Plan	1									
Offset	21											
SPLITS:	1)		2)	32	3)		4)	28				
	5)		6)	32	7)		8)					
	9)		10)		11)		12)					
BY PHASE												
Veh Permissive	[1]				[2]							
Veh Perm 2 Disp												
Phase Reservice	.											
Split Extension/Ring	[1]				[2]							
Splt Demand Pattern	[1]				[2]							
Xartery Pattern												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases		2				6						
Veh Recall												
Veh Max Recall												
Ped Recall												
Phase Omit												
Spare												
Alt Sequence	A:		B:		C:		D:		E:		F:	

PLAN FORMAT													
Cycle Length		65		Plan		2							
Offset		57											
SPLITS:	1)		2)	39	3)		4)	26					
	5)		6)	39	7)		8)						
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive		[1]				[2]							
Veh Perm 2 Disp													
Phase Reservice		.											
Split Extension/Ring		[1]				[2]							
Splt Demand Pattern		[1]				[2]							
Xartery Pattern													
PHASE		1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases		2				6							
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence		A:		B:		C:		D:		E:		F:	

PLAN FORMAT												
Cycle Length	65		Plan	3								
Offset	58											
SPLITS:	1)		2)	37	3)		4)	28				
	5)		6)	37	7)		8)					
	9)		10)		11)		12)					
BY PHASE												
Veh Permissive	[1]		[2]									
Veh Perm 2 Disp												
Phase Reservice	.											
Split Extension/Ring	[1]		[2]									
Splt Demand Pattern	[1]		[2]									
Xartery Pattern												
PHASE	1	2	3	4	5	6	7	8	9	10	11	12
Coord Phases	2				6							
Veh Recall												
Veh Max Recall												
Ped Recall												
Phase Omit												
Spare												
Alt Sequence												

Alt Sequence: A=switch Ø1 & Ø2
B=switch Ø3 & Ø4

C=switch Ø5 & Ø6
D=switch Ø7 & Ø8

E=switch Ø9 & Ø10
F=switch Ø11 & Ø12

PLAN FORMAT													
Cycle Length		Plan		4									
Offset													
SPLITS:	1)		2)		3)		4)						
	5)		6)		7)		8)						
	9)		10)		11)		12)						
BY PHASE													
Veh Permissive	[1]				[2]								
Veh Perm 2 Disp													
Phase Reservice	.												
Split Extension/Ring	[1]				[2]								
Splt Demand Pattern	[1]				[2]								
Xartery Pattern													
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	
Coord Phases													
Veh Recall													
Veh Max Recall													
Ped Recall													
Phase Omit													
Spare													
Alt Sequence	A:		B:		C:		D:		E:		F:		

CITY OF SACRAMENTO

COORDINATION/TIME OF DAY DATA

Coordinator Options

Key: (F1)-3-1

Split Units	SEC	Actuated Coord ϕ	X
Offset Units	SEC	Actuated Rest In Wal	.
Interconnect Format	PLAN	Inhibit Max	X
Interconnect Source	NIC	Max 2 Select	.
Resync Count	15	Multisync	.
Transition	SMOOTH	Float Force Off	.
Dwell Period	0 sec	A B C D E F	.
Free Alternate Sequence		.	.

Coord Manual and Split Demand

Key: (F1)-3-2

Manual Enable	OFF	Manual Pattern	
Split Demand	Demand 1	Demand 2	
Demand Call Time	0	0	
Demand Cycle Count	0	0	
Demand ϕ	1	2	3
Demand 1 ϕ 's			
Demand 2 ϕ 's			

Coord Auto Permissive Min Green

Key: (F1)-3-3

Phase	Perm Min Grn	
1	0 sec	
2	0 sec	
3	0 sec	
4	0 sec	
5	0 sec	
6	0 sec	
7	0 sec	
8	0 sec	
9	0 sec	
10	0 sec	
11	0 sec	
12	0 sec	

Clock/ Calendar Data

Key: (F1)-5-1

DATE SET:	0/0/00	Enter Date/Time
TIME SET:	0:00:00	Then Press Enter
Manual NIC Prgrm Step	0	
Manual TOD Prgrm Step	0	
Sync Reference Time	0:00	
Sync Reference	REFERENCE TIME	
Week 1 begins on 1st Sunday		
Disable Daylight Savings		
DST begins Last Sunday		

TOD Yearly Program

Key: (F1)-5-3

Week of Year	1	2	3	4	5	6	7	8
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	9	10	11	12	13	14	15	16
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	17	18	19	20	21	22	23	24
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	25	26	27	28	29	30	31	32
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	33	34	35	36	37	38	39	40
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	41	42	43	44	45	46	47	48
Weekly Program	1	1	1	1	1	1	1	1
Week of Year				49	50	51	52	53
Weekly Program				1	1	1	1	1

TOD Weekly Programs

Key: (F1)-5-2

Week	SU	MO	TU	WE	TH	FR	SA
1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1

CITY OF SACRAMENTO

COORDINATION/TIME OF DAY DATA

Coordinator Options**Key: (F1)-3-1**

Split Units	SEC	Actuated Coord ϕ	X
Offset Units	SEC	Actuated Rest In Wal	.
Interconnect Format	PLAN	Inhibit Max	X
Interconnect Source	NIC	Max 2 Select	.
Resync Count	15	Multisync	.
Transition	SMOOTH	Float Force Off	.
Dwell Period	0 sec	A B C D E F	.
Free Alternate Sequence		.	.

Coord Manual and Split Demand**Key: (F1)-3-2**

Manual Enable	OFF	Manual Pattern	
Split Demand	Demand 1	Demand 2	
Demand Call Time	0	0	
Demand Cycle Count	0	0	
Demand ϕ	1	2	3
Demand 1 ϕ 's			
Demand 2 ϕ 's			

Coord Auto Permissive Min Green**Key: (F1)-3-3**

Phase	Perm Min Grn	
1	0 sec	
2	0 sec	
3	0 sec	
4	0 sec	
5	0 sec	
6	0 sec	
7	0 sec	
8	0 sec	
9	0 sec	
10	0 sec	
11	0 sec	
12	0 sec	

Clock/ Calendar Data**Key: (F1)-5-1**

DATE SET:	0/0/00	Enter Date/Time
TIME SET:	0:00:00	Then Press Enter
Manual NIC Prgrm Step	0	
Manual TOD Prgrm Step	0	
Sync Reference Time	0:00	
Sync Reference	REFERENCE TIME	
Week 1 begins on 1st Sunday		
Disable Daylight Savings		
DST begins Last Sunday		

TOD Yearly Program**Key: (F1)-5-3**

Week of Year	1	2	3	4	5	6	7	8
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	9	10	11	12	13	14	15	16
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	17	18	19	20	21	22	23	24
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	25	26	27	28	29	30	31	32
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	33	34	35	36	37	38	39	40
Weekly Program	1	1	1	1	1	1	1	1
Week of Year	41	42	43	44	45	46	47	48
Weekly Program	1	1	1	1	1	1	1	1
Week of Year				49	50	51	52	53
Weekly Program				1	1	1	1	1

TOD Weekly Programs**Key: (F1)-5-2**

Week	SU	MO	TU	WE	TH	FR	SA
1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1

CITY OF SACRAMENTO

PREEMPTION TABLES

Priority Preemptor 2

Key: (F1)-4-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases						6						
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:				C:			D:	
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	55	Duration Time							GRN	YEL	RED	
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 3

Key: (F1)-4-2

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases												
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:				C:			D:	
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash												
Max Time	55	Duration Time							GRN	YEL	RED	
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 4

Key: (F1)-4-3

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases												
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:				C:			D:	
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash				GREEN								
Max Time	55	Duration Time							GRN	YEL	RED	
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

Priority Preemptor 5

Key: (F1)-4-4

Phase	1	2	3	4	5	6	7	8	9	10	11	12
Term Phase Ovlp												
Trk Clr Phase												
Hold Phases												
Exit Phases												
Exit Calls												
Spare												
Term Overlaps	A:			B:				C:			D:	
Active	YES			Ped Dark								
Priority				Ped Active								
Det Lock				Zero PC Time								
Hold Flash				PC Thru Yellow								
Term Ovlp ASAP				Term Phases								
Don't Override Flash				X								
Flash all Outputs												
Yellow-Red goes Green												
Enable Max Preempt Time												
Active only During Hold												
No CVM in Flash												
Fast Flash GRN on Hold												
Out of Flash												
Max Time	55	Duration Time							GRN	YEL	RED	
Min Hold Time	6	Delay Time				Minimum						
Min Ped Clear		Inhibit Time				Track Clear						
Exit Max		Hld Delay Tim				Hold						

CITY OF SACRAMENTO

DETECTION SCHEDULE

Howe Avenue at US 50 WB offramp

	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function				
					Extend	Delay	Passage	Notes	
BIU 1	Loops or Retrofit Video								
	Ø1	1							
	Ø2	2	Front	NB			x		
	Ø3	3							
	Ø4	4	Front	WB			x		
	Ø5	5							
	Ø6	6	Front	SB			x		
	Ø7								
	Ø8								
	Loops								
	Ø1	9							
	Ø2	10							
	Ø3	11							
	Ø4	12							
	Ø5	13							
	Ø6	14							
	Ø7	15							
	Ø8	16							
New Video Detection BIU 2 (RESERVED) 17-32									
BIU 3	Ø1	33							
	Ø1	34							
	Ø6	35							
	Ø6	36							
	Ø6	37							
	Ø6	38							
	Ø6	39							
	Ø6	40							
	Ø5	41							
	Ø5	42							
	Ø2	43							
	Ø2	44							
	Ø2	45							
	Ø2	46							
	Ø2	47							
	Ø2	48							
	BIU 4	Ø3	49						
		Ø3	50						
Ø8		51							
Ø8		52							
Ø8		53							
Ø8		54							
Ø8		55							
Ø8		56							
Ø7		57							
Ø7		58							
Ø4		59							
Ø4		60							
Ø4		61							
Ø4		62							
Ø4		63							
Ø4		64							

ECONOLITE ASC/3

TRAFFIC SIGNAL CONTROLLED PROGRAM CHART

N/S Howe Avenue E/W Swarthmore Drive

Intersection #: 454

System: _____

IP Address: 172.31.54.90

CCS: 3

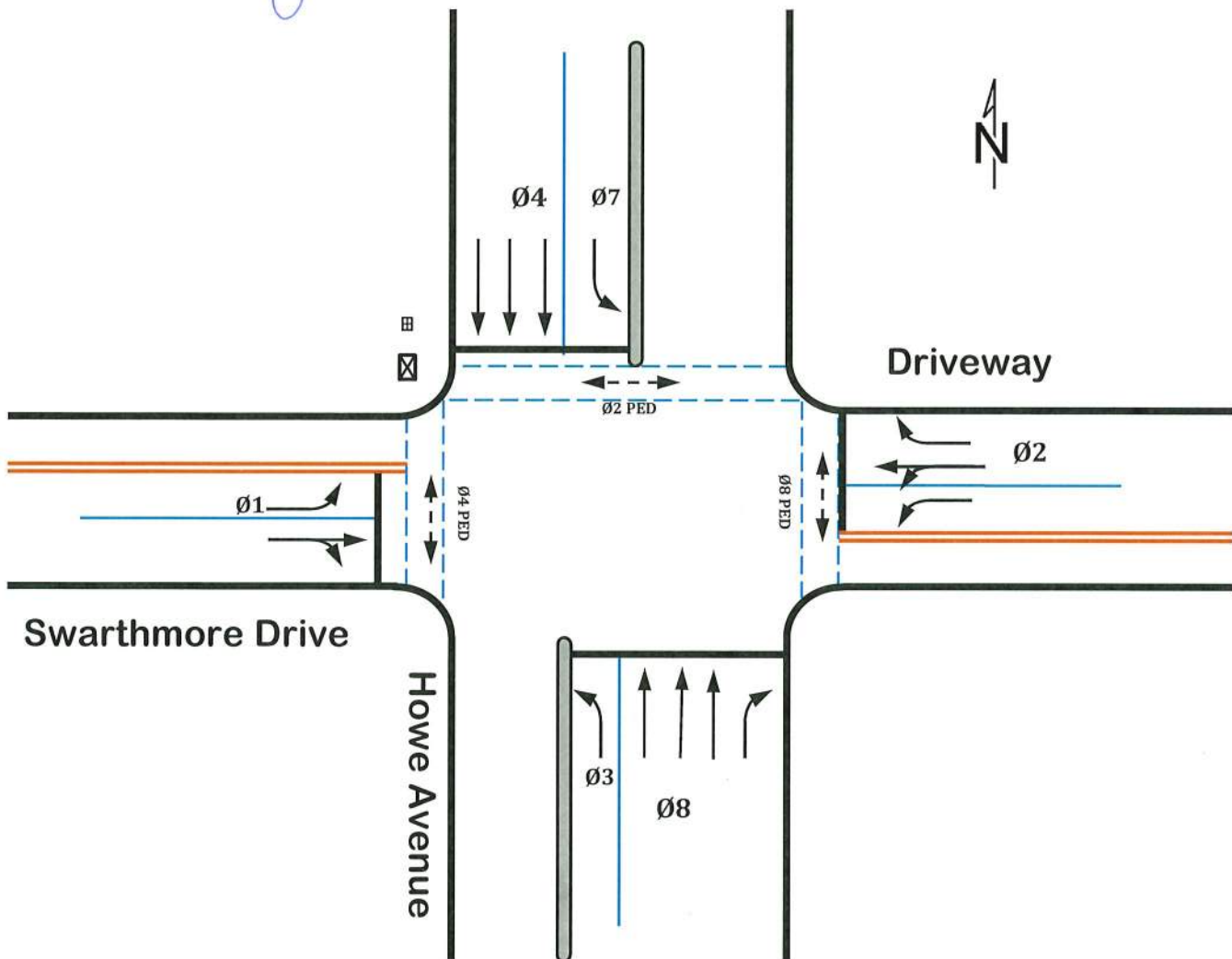
Channel: 306

Drop #: 35

Prepared by: *aj*

Approved by: *[Signature]*

Date Implemented: 3-6-20



City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Timing Plan (MM) 2-1

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction																
Min Green	11	11	10	8	0	0	11	8	0	0	0	0	0	0	0	0
Bk Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	4	0	7	0	0	0	7	0	0	0	0	0	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	26	0	12	0	0	0	17	0	0	0	0	0	0	0	0
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vehicle Ext 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max1	30	30	35	60	0	0	35	60	0	0	0	0	0	0	0	0
Max2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dym Step	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	3.5	3.5	3.5	5.0	0.0	0.0	3.5	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	0.6	0.4	0.1	1.0	0.0	0.0	0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Red Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Revert	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Act B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sec/Act	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Int	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPTDuc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TTReduc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Configuration Controller Sequence

Phase Ring Sequence.....(Note: Sequences identical to the prior one are not printed)

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

B

B

Sequence 1

Ring 1	|	2	1	|	3	4	.	.	.	.	.	.	.	.	.	.
Ring 2	|	.	.	|	7	8	.	.	.	.	.	.	.	.	.	.

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
-------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

Hardware Alternate Sequence Enable: No

City of Sacramento



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454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Configuration Port 1 (SDLC)**Port 1 SDLC (MM) 1-4-1**

BIU	1	2	3	4	5	6	7	8
Term & Facility								
Detector Rack								

Enable TS2/MMU Type Cabinet: No
 Enable MMU Extended Status: No
 Enable SDLC Stop Time: No
 Enable 3 Critical RFE's Lockup: Yes

MMU Program (MM) 1-4-2

Channel Can Serve With Channel	
Channel 1	Channel 2

Color Check Enable (MM) 1-4-3

Enable Color Check: Yes

MMU/LS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Green																
Yellow																
Red																

Secondary Stations/Tests (MM) 1-4-4

ID	1	2	3	4	5	6	7	8	MMU
Term & Facility									

ID	1	2	3	4	5	6	7	8	Diag
Detector Rack									

Enable SDLC Diagnostic Test: No

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Start / Flash Data (MM) 2-5

Start Up

Phase	Phase Setting
1	.
2	.
3	.
4	Y
5	.
6	.
7	.
8	Y
9	.
10	.
11	.
12	.
13	.
14	.
15	.
16	.

Overlap
A
B
C
D

Flash Thru Mon: No
Flash Time: 6
All Red: 6
Power Start Seq: 1
MUTCD Enabled: No
Y->G: n/a

Automatic Flash

Entry
4
8

Exit
4
8

Overlap Exit
A
B
C
D

Flash Thru Mon: No
Exit Flash: W
Minimum Flash: 8
Minimum Recall: No
Cycle Through Phase: No

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Controller Options

Controller Options (MM) 2-6-1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Flashing Grn Ph
Guar Passage																
Non-Act I																
Non-Act II																
Dual Entry																
Cond Service																
Cond Reservice																
Ped Re-Service																
Rest In Walk																
Flashing Walk																
Ped Clr-Yel																
Ped Clr-Red																
IGRN + Veh Ext																

Ped Clear Protect: Off

Unit Red Revert: 2.0

MUTCD 3 Seconds Don't Walk: No

Pre-Timed Mode (MM) 2-7

Enable Pre-Timed Mode: No

Free Input Disables Pre-Timed: No

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pre-Timed																

Phase Recall Options (MM) 2-8

Plan # 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Lock Detector			X				X									
Vehicle Recall				X				X								
Ped Recall																
Max Recall																
Soft Recall																
No Rest																
AI Calc																

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Coordination Options**Options (MM) 3-1**

Manual Pattern	Auto	ECPI Coord	Yes
System Source	TBC	System Format	STD
Splits In	Seconds	Offsets In	Seconds
Transition	Smooth	Max Select	MAXINH
Dwell / Add Time	0		
Delay Coord Wk-LZ	No	Force Off	Float
Offset Reference	Lag	Use Ped Time	Yes
Ped Recall	No	Ped Reservice	No
Local Zero Override	No	FO Added Ini Green	No
Re-sync Count	0	Multisync	No

Auto Perm Minimum Green (Seconds) (MM) 3-4

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Minimum Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Split Demand (MM) 3-5

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Demand 1																
Demand 2																

Demand	1	2
Detector	0	0
Call Time (Sec)	0	0
Cycle Count	0	0

City of Sacramento



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454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Coordination Pattern Data

Coordinator Pattern Data (MM) 3-2

Coordinator Pattern # 1

Split Pattern	1	TS2 (Pat-Off)	0-1	Splits In	Seconds
Cycle	120	Std (COS)	9	Offsets In	Seconds
Offset Value	94s	Dwell/Add Time	0		
Actuated Coord	Yes	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reserve	Yes	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 1)	16	34	20	50	0	0	20	50	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	120s	70s	0s	0s

Misc. Data

Veh Perm 1	0	Veh Perm 2	0	Veh Perm 2 Disp	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																
Special Function Outputs																

Coordinator Pattern # 2

Split Pattern	2	TS2 (Pat-Off)	0-2	Splits In	Seconds
Cycle	130	Std (COS)	17	Offsets In	Seconds
Offset Value	10s	Dwell/Add Time	0		
Actuated Coord	Yes	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	Yes	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 2)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	130s	80s	0s	0s

Misc. Data					
Veh Perm 1	0	Veh Perm 2	0	Veh Perm 2 Disp	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																
Special Function Outputs																

Coordinator Pattern # 3

Split Pattern	3	TS2 (Pat-Off)	0-3	Splits In	Seconds
Cycle	130	Std (COS)	25	Offsets In	Seconds
Offset Value	47s	Dwell/Add Time	0		
Actuated Coord	Yes	Timing Plan	0		
Actuated Walk Rest	No	Sequence	0		
Phase Reservice	Yes	Action Plan	0		
Max Select	None	Force Off	None		

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 3)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	20	20	0	0
Ring Displacement	-	0	0	0
Split Sum	130s	80s	0s	0s

Misc. Data					
Veh Perm 1	0	Veh Perm 2	0	Veh Perm 2 Disp	0
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial Pat	0

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																
Special Function Outputs																

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Coordination Split Pattern
Split Pattern Data (MM) 3-3
Split Pattern # 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	20	50	0	0	20	50	0	0	0	0	0	0	0	0
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																

Ring	1	2	3	4
Split Sum	120s	70s	0s	0s

Split Pattern # 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																

Ring	1	2	3	4
Split Sum	130s	80s	0s	0s

Split Pattern # 3

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Split (seconds)	16	34	15	65	0	0	15	65	0	0	0	0	0	0	0	0
Coord Phase				X				X								
Vehicle Recall				X				X								
Pedestrian Recall																
Recall to Max. Time																
Omit Phase																

Ring	1	2	3	4
Split Sum	130s	80s	0s	0s

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Time Base Clock/Calendar

Clock/Calendar Data (MM) 5-1

Manual Action Plan: 0
SYNC Reference Time: 00:00
SYNC Reference: Reference Time
Day Light Savings: No
Time Reset Input Set Time: 3:30:00
Standard Time From GMT: 0

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Time Base Day Plan/Schedule

Day Plan (MM) 5-3

Day Plan #1

Event	Action Plan	Start Time
1	1	07:00
2	2	09:30
3	3	14:00
4	4	19:00

Schedule (MM) 5-4**Schedule Number - 1**

Day Plan No.: 1

Month	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	X	X	X	X	X	X	X	X	X	X	X	X

Day (DOW)	SUN	MON	TUE	WED	THU	FRI	SAT
	X	X	X	X	X	X	X

Day (DOM)	1	2	3	4	5	6	7	8	9	10	11
	X	X	X	X	X	X	X	X	X	X	X
	12	13	14	15	16	17	18	19	20	21	22
	X	X	X	X	X	X	X	X	X	X	X
	23	24	25	26	27	28	29	30	31		
	X	X	X	X	X	X	X	X	X		

City of Sacramento



Solutions that Move the World™

454 - Howe Avenue & Swarthmore Drive - Econolite Type - ASC/3

Detectors

Detectors - Pg 1

Veh Det Phase Assignment (MM) 6-1

Vehicle Detector Plan Number - 1

Veh Detector	Called Phase	Type
--------------	--------------	------

Vehicle Detector Plan Number - 2

Veh Detector	Called Phase	Type
--------------	--------------	------

Vehicle Detector Setup (MM) 6-2

Veh Detector	Type	TS2 Detector	Description
1	S-STANDARD	No	
2	S-STANDARD	No	
3	S-STANDARD	No	
4	S-STANDARD	No	
5	S-STANDARD	Yes	
6	S-STANDARD	No	
7	S-STANDARD	No	
8	S-STANDARD	No	
9	S-STANDARD	Yes	
10	S-STANDARD	Yes	
11	S-STANDARD	Yes	
12	S-STANDARD	Yes	
13	S-STANDARD	Yes	
14	S-STANDARD	Yes	
15	S-STANDARD	Yes	
16	S-STANDARD	Yes	
17	S-STANDARD	Yes	
18	S-STANDARD	Yes	
19	S-STANDARD	Yes	
20	S-STANDARD	Yes	
21	S-STANDARD	Yes	
22	S-STANDARD	Yes	
23	S-STANDARD	Yes	
24	S-STANDARD	Yes	
25	S-STANDARD	Yes	
26	S-STANDARD	Yes	
27	S-STANDARD	Yes	
28	S-STANDARD	Yes	
29	S-STANDARD	Yes	
30	S-STANDARD	Yes	
31	S-STANDARD	Yes	
32	S-STANDARD	Yes	
33	S-STANDARD	Yes	
34	S-STANDARD	Yes	
35	S-STANDARD	Yes	
36	S-STANDARD	Yes	
37	S-STANDARD	Yes	
38	S-STANDARD	Yes	
39	S-STANDARD	Yes	
40	S-STANDARD	Yes	
41	S-STANDARD	Yes	
42	S-STANDARD	Yes	
43	S-STANDARD	Yes	
44	S-STANDARD	Yes	
45	S-STANDARD	Yes	

46	S-STANDARD	Yes	
47	S-STANDARD	Yes	
48	S-STANDARD	Yes	
49	S-STANDARD	Yes	
50	S-STANDARD	Yes	
51	S-STANDARD	Yes	
52	S-STANDARD	Yes	
53	S-STANDARD	Yes	
54	S-STANDARD	Yes	
55	S-STANDARD	Yes	
56	S-STANDARD	Yes	
57	S-STANDARD	Yes	
58	S-STANDARD	Yes	
59	S-STANDARD	Yes	
60	S-STANDARD	Yes	
61	S-STANDARD	Yes	
62	S-STANDARD	Yes	
63	S-STANDARD	Yes	
64	S-STANDARD	Yes	

Vehicle Detector Plan Number - 1

Veh Detector	Phase	ECPI Log	Call Option	Delay Time	Ext Option	Extend Time / Passage Time	Queue Lim. / Discon. Time	Use Added Initial	Cross Switch Ph	Lock In	NTCIP Vol.	NTCIP Occ.	Pmt Queue Delay
1	1	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
2	2	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
3	3	No	Yes	2.0	Passage	0.0	0	No	0	None	No	No	No
4	4	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
5	5	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
6	6	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
7	7	No	Yes	2.0	Passage	0.0	0	No	0	None	No	No	No
8	8	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
9	9	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
10	10	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
11	11	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
12	12	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
13	13	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
14	14	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
15	15	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
16	16	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
17	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
18	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
19	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
20	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
21	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
22	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
23	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
24	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
25	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
26	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
27	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
28	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
29	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
30	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
31	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
32	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
33	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
34	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
35	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
36	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
37	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
38	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
39	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
40	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
41	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
42	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
43	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

44	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
45	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
46	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
47	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
48	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
49	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
50	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
51	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
52	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
53	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
54	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
55	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
56	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
57	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
58	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
59	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
60	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
61	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
62	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
63	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
64	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

Vehicle Detector Plan Number - 2

Veh Detector	Phase	ECPI Log	Call Option	Delay Time	Ext Option	Extend Time / Passage Time	Queue Lim. / Discon. Time	Use Added Initial	Cross Switch Ph	Lock In	NTCIP Vol.	NTCIP Occ.	Pmt Queue Delay
1	1	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
2	2	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
3	3	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
4	4	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
5	5	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
6	6	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
7	7	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
8	8	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
9	9	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
10	10	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
11	11	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
12	12	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
13	13	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
14	14	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
15	15	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
16	16	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
17	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
18	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
19	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
20	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
21	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
22	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
23	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
24	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
25	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
26	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
27	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
28	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
29	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
30	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
31	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
32	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
33	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
34	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
35	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
36	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
37	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
38	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
39	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
40	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
41	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
42	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

43	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
44	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
45	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
46	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
47	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
48	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
49	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
50	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
51	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
52	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
53	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
54	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
55	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
56	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
57	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
58	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
59	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
60	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
61	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
62	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
63	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No
64	0	No	Yes	0.0	Passage	0.0	0	No	0	None	No	No	No

Ped Detector Phase Assignment (MM) 6-3

Mode: NTCIP

Called Phase	Detector
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

CITY OF SACRAMENTO

DETECTION SCHEDULE

Howe Avenue and Swarthmore Drive

	Phase	Controller Det. Input	Location	Direction	Controller / Detector Type / Function			
					Extend	Delay	Passage	Notes
BIU 1	Loops or Retrofit Video							
	Ø1	1	Front, Mid	EB			x	D1/D3 front, D2/D4 mid
	Ø2	2	Front, Mid	WB			x	D1/D4 front, D2 mid
	Ø3	3	Front	N-W			x	D1
	Ø4	4	Front, Rear	SB			x	D1 front, D2 mid & rear
	Ø5	5						
	Ø6	6						
	Ø7	7	Front	S-E			x	D1
	Ø8	8	Front, Rear	NB			x	D1 front, D2 mid, D3 rear
	Loops							
	Ø1	9						
	Ø2	10						
	Ø3	11						
	Ø4	12						
	Ø5	13						
	Ø6	14						
Ø7	15							
Ø8	16							
New Video Detection BIU 2 (RESERVED) 17-32								
BIU 3	Ø1	33						
	Ø1	34						
	Ø6	35						
	Ø6	36						
	Ø6	37						
	Ø6	38						
	Ø6	39						
	Ø6	40						
	Ø5	41						
	Ø5	42						
	Ø2	43						
	Ø2	44						
	Ø2	45						
	Ø2	46						
	Ø2	47						
	Ø2	48						
BIU 4	Ø3	49						
	Ø3	50						
	Ø8	51						
	Ø8	52						
	Ø8	53						
	Ø8	54						
	Ø8	55						
	Ø8	56						
	Ø7	57						
	Ø7	58						
	Ø4	59						
	Ø4	60						
	Ø4	61						
	Ø4	62						
	Ø4	63						
	Ø4	64						





















APPENDIX D: SYNCHRO REPORTS



HCM 7th Signalized Intersection Summary

2: Howe Avenue & University Avenue
























01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	29	37	106	146	150	43	191	1043	226	31	762	110
Future Volume (veh/h)	29	37	106	146	150	43	191	1043	226	31	762	110
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	29	37	106	113	196	43	191	1043	226	31	762	110
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	163	171	143	165	276	59	200	2489	539	115	2467	353
Arrive On Green	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.20	0.20	0.06	0.55	0.55
Sat Flow, veh/h	1781	1870	1562	1781	2985	640	1781	4201	909	1781	4512	646
Grp Volume(v), veh/h	29	37	106	113	121	118	191	845	424	31	573	299
Grp Sat Flow(s),veh/h/ln	1781	1870	1562	1781	1870	1755	1781	1702	1707	1781	1702	1754
Q Serve(g_s), s	1.8	2.2	7.9	7.4	7.5	7.8	12.8	26.1	26.1	2.0	11.0	11.2
Cycle Q Clear(g_c), s	1.8	2.2	7.9	7.4	7.5	7.8	12.8	26.1	26.1	2.0	11.0	11.2
Prop In Lane	1.00		1.00	1.00		0.36	1.00		0.53	1.00		0.37
Lane Grp Cap(c), veh/h	163	171	143	165	173	162	200	2017	1011	115	1862	959
V/C Ratio(X)	0.18	0.22	0.74	0.69	0.70	0.73	0.95	0.42	0.42	0.27	0.31	0.31
Avail Cap(c_a), veh/h	441	463	387	441	463	434	200	2017	1011	181	1862	959
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.84	0.84	0.84
Uniform Delay (d), s/veh	50.4	50.5	53.1	52.8	52.8	53.0	57.5	30.2	30.2	53.4	14.8	14.8
Incr Delay (d2), s/veh	0.4	0.5	5.6	3.7	3.8	4.5	49.7	0.6	1.3	0.4	0.4	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	1.1	3.3	3.5	3.7	3.7	8.9	12.0	12.3	0.9	4.1	4.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	50.7	51.0	58.7	56.5	56.6	57.5	107.2	30.8	31.5	53.8	15.2	15.6
LnGrp LOS	D	D	E	E	E	E	F	C	C	D	B	B
Approach Vol, veh/h	172				352		1460				903	
Approach Delay, s/veh	55.7				56.9		41.0				16.6	
Approach LOS	E				E		D				B	
Timer - Assigned Phs	2		3		4		6		7		8	
Phs Duration (G+Y+Rc), s	15.3		12.5		76.8		15.4		18.0		71.3	
Change Period (Y+Rc), s	4.3		4.8		5.7		4.3		4.5		5.7	
Max Green Setting (Gmax), s	29.7		12.2		29.3		29.7		13.5		28.3	
Max Q Clear Time (g_c+I1), s	9.9		4.0		28.1		9.8		14.8		13.2	
Green Ext Time (p_c), s	0.7		0.0		0.7		1.3		0.0		3.2	
Intersection Summary												
HCM 7th Control Delay, s/veh			36.2									
HCM 7th LOS			D									
Notes												
User approved volume balancing among the lanes for turning movement.												

HCM 7th Signalized Intersection Summary

3: Power Inn Road/Howe Avenue & Folsom Boulevard

01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	108	267	140	203	764	422	257	1074	255	373	1234	204
Future Volume (veh/h)	108	267	140	203	764	422	257	1074	255	373	1234	204
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	108	267	140	203	764	422	257	1074	0	373	1234	204
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	208	576	293	278	960	1201	334	1513		554	1828	567
Arrive On Green	0.06	0.25	0.25	0.08	0.27	0.27	0.10	0.30	0.00	0.16	0.36	0.36
Sat Flow, veh/h	3456	2279	1160	3456	3554	2790	3456	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	108	206	201	203	764	422	257	1074	0	373	1234	204
Grp Sat Flow(s),veh/h/ln	1728	1777	1662	1728	1777	1395	1728	1702	1585	1728	1702	1585
Q Serve(g_s), s	2.8	9.2	9.6	5.4	18.8	1.8	6.8	17.6	0.0	9.5	19.2	8.9
Cycle Q Clear(g_c), s	2.8	9.2	9.6	5.4	18.8	1.8	6.8	17.6	0.0	9.5	19.2	8.9
Prop In Lane	1.00		0.70	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	208	449	420	278	960	1201	334	1513		554	1828	567
V/C Ratio(X)	0.52	0.46	0.48	0.73	0.80	0.35	0.77	0.71		0.67	0.68	0.36
Avail Cap(c_a), veh/h	1130	649	607	1141	1303	1470	1101	2454		2022	3003	932
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.8	29.6	29.8	42.1	31.9	7.3	41.4	29.4	0.0	37.1	25.5	22.2
Incr Delay (d2), s/veh	0.7	0.8	0.9	1.4	2.2	0.1	1.4	0.7	0.0	0.5	0.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	3.8	3.7	2.2	7.8	1.4	2.8	6.8	0.0	3.9	7.3	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	43.5	30.4	30.7	43.5	34.0	7.5	42.8	30.1	0.0	37.6	26.0	22.6
LnGrp LOS	D	C	C	D	C	A	D	C		D	C	C
Approach Vol, veh/h	515			1389			1331			1811		
Approach Delay, s/veh	33.3			27.4			32.6			28.0		
Approach LOS	C			C			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	9.9	31.0	20.2	32.7	11.6	29.4	14.2	38.7				
Change Period (Y+Rc), s	4.3	* 5.7	5.1	4.9	4.0	5.7	5.1	* 5.1				
Max Green Setting (Gmax), s	30.7	* 34	54.9	45.1	31.0	34.3	29.9	* 55				
Max Q Clear Time (g_c+l1), s	4.8	20.8	11.5	19.6	7.4	11.6	8.8	21.2				
Green Ext Time (p_c), s	0.1	4.6	0.4	8.2	0.2	2.3	0.3	12.4				

Intersection Summary

HCM 7th Control Delay, s/veh	29.6
HCM 7th LOS	C

Notes

User approved pedestrian interval to be less than phase max green.

























* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

HCM Signalized Intersection Capacity Analysis

1: Howe Avenue & Fair Oaks Boulevard












01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	305	534	53	43	920	175	250	839	24	226	946	629
Future Volume (vph)	305	534	53	43	920	175	250	839	24	226	946	629
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Lane Util. Factor	0.97	0.91	1.00	1.00	0.95	1.00	0.97	0.91		0.97	0.91	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	5085	1583	1770	3539	1583	3433	5064		3433	5085	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	5085	1583	1770	3539	1583	3433	5064		3433	5085	1583
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	305	534	53	43	920	175	250	839	24	226	946	629
RTOR Reduction (vph)	0	0	36	0	0	119	0	2	0	0	0	0
Lane Group Flow (vph)	305	534	17	43	920	56	250	861	0	226	946	629
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA		Prot	NA	custom
Protected Phases	1	6		5	2		3!	8		7	4	14!
Permitted Phases			6			2						1
Actuated Green, G (s)	14.2	39.1	39.1	9.6	35.0	35.0	13.2	39.5		12.8	39.1	67.0
Effective Green, g (s)	14.2	39.1	39.1	9.6	35.0	35.0	13.2	39.5		12.8	39.1	67.0
Actuated g/C Ratio	0.12	0.33	0.33	0.08	0.29	0.29	0.11	0.33		0.11	0.33	0.56
Clearance Time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lane Grp Cap (vph)	406	1656	515	141	1032	461	377	1666		366	1656	943
v/s Ratio Prot	c0.09	0.11		0.02	c0.26		c0.07	0.17		0.07	0.19	c0.29
v/s Ratio Perm			0.01			0.04						0.10
v/c Ratio	0.75	0.32	0.03	0.30	0.89	0.12	0.66	0.52		0.62	0.57	0.67
Uniform Delay, d1	51.2	30.5	27.6	52.1	40.7	31.2	51.3	32.5		51.3	33.5	18.6
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.04	0.60		1.00	1.00	1.00
Incremental Delay, d2	6.8	0.0	0.0	0.4	9.6	0.0	3.1	1.0		2.2	1.4	1.4
Delay (s)	58.0	30.5	27.6	52.5	50.3	31.3	56.2	20.6		53.4	34.9	20.0
Level of Service	E	C	C	D	D	C	E	C		D	C	C
Approach Delay (s/veh)		39.7			47.4			28.6			32.1	
Approach LOS		D			D			C			C	
Intersection Summary												
HCM 2000 Control Delay (s/veh)			36.2									
HCM 2000 Level of Service										D		
HCM 2000 Volume to Capacity ratio			0.80									
Actuated Cycle Length (s)			120.0							19.0		
Intersection Capacity Utilization			84.8%									
ICU Level of Service										E		
Analysis Period (min)			15									
! Phase conflict between lane groups.												
c Critical Lane Group												

Queues

1: Howe Avenue & Fair Oaks Boulevard

12/31/2024

											
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	305	534	53	43	920	175	250	863	226	946	629
v/c Ratio	0.75	0.32	0.09	0.24	0.92	0.31	0.66	0.51	0.62	0.56	0.65
Control Delay (s/veh)	63.2	31.5	0.3	53.7	55.8	6.9	60.9	20.6	58.8	35.2	19.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	63.2	31.5	0.3	53.7	55.8	6.9	60.9	20.6	58.8	35.2	19.9
Queue Length 50th (ft)	118	115	0	31	355	4	61	203	88	225	285
Queue Length 95th (ft)	167	148	0	69	#473	57	151	68	126	282	526
Internal Link Dist (ft)		794			572			911		448	
Turn Bay Length (ft)	530		100	300			260		205		270
Base Capacity (vph)	443	1657	593	228	1037	582	457	1708	457	1692	975
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.69	0.32	0.09	0.19	0.89	0.30	0.55	0.51	0.49	0.56	0.65

Intersection Summary

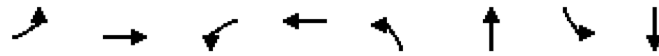
95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Queues

2: Howe Avenue & University Avenue

12/31/2024



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	26	146	112	227	191	1269	31	872
v/c Ratio	0.13	0.32	0.53	0.50	0.73	0.47	0.18	0.40
Control Delay (s/veh)	45.4	16.3	55.8	46.4	65.4	21.1	50.9	37.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	45.4	16.3	55.8	46.4	65.4	21.1	50.9	37.3
Queue Length 50th (ft)	20	15	92	84	140	206	25	160
Queue Length 95th (ft)	43	41	136	109	#281	#453	m47	242
Internal Link Dist (ft)		594		409		1494		911
Turn Bay Length (ft)	90		140		230		100	
Base Capacity (vph)	398	819	398	825	263	2700	179	2206
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.07	0.18	0.28	0.28	0.73	0.47	0.17	0.40

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.












Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Queues

3: Power Inn Road/Howe Avenue & Folsom Boulevard

12/31/2024

											
Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	108	407	203	764	422	257	1074	255	373	1234	204
v/c Ratio	0.46	0.43	0.60	0.72	0.28	0.65	0.72	0.16	0.64	0.70	0.32
Control Delay (s/veh)	62.5	35.4	61.3	43.7	2.6	60.4	41.3	0.2	52.3	35.8	11.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	62.5	35.4	61.3	43.7	2.6	60.4	41.3	0.2	52.3	35.8	11.8
Queue Length 50th (ft)	41	119	76	273	9	96	264	0	136	290	36
Queue Length 95th (ft)	82	208	137	430	34	165	372	0	216	391	103
Internal Link Dist (ft)		499		869			545			781	
Turn Bay Length (ft)	230		225		320	155		130	720		210
Base Capacity (vph)	900	1015	909	1061	1873	877	1960	1583	1611	3051	1003
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.12	0.40	0.22	0.72	0.23	0.29	0.55	0.16	0.23	0.40	0.20
Intersection Summary											

Queues

5: Howe Avenue & Swarthmore Drive/University Park Drive

12/31/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

8: Howe Avenue & American River Drive

12/31/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

11: Howe Avenue & Howe Avenue/U.S. Route 50 Ramp

12/31/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues





















14: Howe Avenue & College Town Drive/Howe Avenue/College Town Drive/U.S. Route 50/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

HCM 7th Signalized Intersection Summary

2: Howe Avenue & University Avenue
























01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	148	137	273	278	49	104	43	1245	254	46	1126	39
Future Volume (veh/h)	148	137	273	278	49	104	43	1245	254	46	1126	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	148	137	273	278	49	104	43	1245	254	46	1126	39
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	348	365	309	412	62	131	130	1982	404	133	2391	83
Arrive On Green	0.20	0.20	0.20	0.12	0.12	0.12	0.07	0.47	0.47	0.07	0.47	0.47
Sat Flow, veh/h	1781	1870	1585	3563	534	1133	1781	4240	865	1781	5067	175
Grp Volume(v), veh/h	148	137	273	278	0	153	43	999	500	46	756	409
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	0	1666	1781	1702	1701	1781	1702	1839
Q Serve(g_s), s	9.5	8.3	21.8	9.7	0.0	11.6	3.0	28.8	28.8	3.2	19.6	19.6
Cycle Q Clear(g_c), s	9.5	8.3	21.8	9.7	0.0	11.6	3.0	28.8	28.8	3.2	19.6	19.6
Prop In Lane	1.00		1.00	1.00		0.68	1.00		0.51	1.00		0.10
Lane Grp Cap(c), veh/h	348	365	309	412	0	193	130	1591	795	133	1606	867
V/C Ratio(X)	0.43	0.38	0.88	0.67	0.00	0.79	0.33	0.63	0.63	0.35	0.47	0.47
Avail Cap(c_a), veh/h	434	456	387	869	0	406	185	1591	795	167	1606	867
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	0.76	0.76	0.76
Uniform Delay (d), s/veh	45.9	45.4	50.9	55.1	0.0	56.0	57.3	26.1	26.1	57.1	23.3	23.3
Incr Delay (d2), s/veh	0.6	0.5	16.8	1.4	0.0	5.5	0.6	1.9	3.7	0.4	0.8	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	3.9	10.1	4.5	0.0	5.2	1.3	11.7	12.1	1.4	7.8	8.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	46.5	45.9	67.7	56.6	0.0	61.4	57.8	28.0	29.8	57.6	24.1	24.7
LnGrp LOS	D	D	E	E		E	E	C	C	E	C	C
Approach Vol, veh/h	558				431				1542			
Approach Delay, s/veh	56.7				58.3				29.4			
Approach LOS	E				E				C			
Timer - Assigned Phs	2		3		4		6		7		8	
Phs Duration (G+Y+Rc), s	29.7		14.5		66.5		19.3		14.0		67.0	
Change Period (Y+Rc), s	4.3		4.8		5.7		4.3		4.5		5.7	
Max Green Setting (Gmax), s	31.7		12.2		35.3		31.7		13.5		28.3	
Max Q Clear Time (g_c+I1), s	23.8		5.2		30.8		13.6		5.0		21.6	
Green Ext Time (p_c), s	1.6		0.0		2.7		1.4		0.0		2.8	
Intersection Summary												
HCM 7th Control Delay, s/veh	35.6											
HCM 7th LOS	D											
Notes												
User approved volume balancing among the lanes for turning movement.												

HCM 7th Signalized Intersection Summary

3: Power Inn Road/Howe Avenue & Folsom Boulevard

01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	92	452	232	300	591	507	191	1331	239	495	1513	139
Future Volume (veh/h)	92	452	232	300	591	507	191	1331	239	495	1513	139
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	92	452	232	300	591	507	191	1331	0	495	1513	139
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	170	535	273	363	1024	1257	253	1667		561	2114	656
Arrive On Green	0.05	0.23	0.23	0.11	0.29	0.29	0.07	0.33	0.00	0.16	0.41	0.41
Sat Flow, veh/h	3456	2278	1160	3456	3554	2790	3456	5106	1585	3456	5106	1585
Grp Volume(v), veh/h	92	352	332	300	591	507	191	1331	0	495	1513	139
Grp Sat Flow(s),veh/h/ln	1728	1777	1662	1728	1777	1395	1728	1702	1585	1728	1702	1585
Q Serve(g_s), s	3.0	21.8	22.0	9.8	16.4	2.2	6.2	27.4	0.0	16.1	28.4	6.5
Cycle Q Clear(g_c), s	3.0	21.8	22.0	9.8	16.4	2.2	6.2	27.4	0.0	16.1	28.4	6.5
Prop In Lane	1.00		0.70	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	170	417	390	363	1024	1257	253	1667		561	2114	656
V/C Ratio(X)	0.54	0.84	0.85	0.83	0.58	0.40	0.76	0.80		0.88	0.72	0.21
Avail Cap(c_a), veh/h	921	529	495	930	1061	1286	897	1999		1647	2446	759
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.5	42.0	42.1	50.5	35.0	10.1	52.4	35.3	0.0	47.2	28.1	21.7
Incr Delay (d2), s/veh	1.0	9.9	11.2	1.8	0.6	0.2	1.7	2.0	0.0	1.9	0.9	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	10.3	9.9	4.2	6.9	2.7	2.7	11.1	0.0	6.9	11.2	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	54.5	51.9	53.4	52.3	35.6	10.3	54.1	37.4	0.0	49.0	29.0	21.9
LnGrp LOS	D	D	D	D	D	B	D	D		D	C	C
Approach Vol, veh/h	776				1398			1522			2147	
Approach Delay, s/veh	52.8				30.0			39.5			33.1	
Approach LOS	D				C			D			C	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.0	38.9	23.8	42.5	16.1	32.8	13.5	52.8				
Change Period (Y+Rc), s	4.3	* 5.7	5.1	4.9	4.0	5.7	5.1	* 5.1				
Max Green Setting (Gmax), s	30.7	* 34	54.9	45.1	31.0	34.3	29.9	* 55				
Max Q Clear Time (g_c+I1), s	5.0	18.4	18.1	29.4	11.8	24.0	8.2	30.4				
Green Ext Time (p_c), s	0.1	4.3	0.6	8.3	0.3	3.0	0.2	13.3				

Intersection Summary

HCM 7th Control Delay, s/veh	36.7
HCM 7th LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

























* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

HCM Signalized Intersection Capacity Analysis

1: Howe Avenue & Fair Oaks Boulevard












01/02/2025

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
Future Volume (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Lane Util. Factor	0.97	0.91	1.00	1.00	0.95	1.00	0.97	0.91		0.97	0.91	1.00
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3433	5085	1583	1770	3539	1583	3433	5051		3433	5085	1583
Flt Permitted	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3433	5085	1583	1770	3539	1583	3433	5051		3433	5085	1583
Peak-hour factor, PHF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj. Flow (vph)	651	999	110	74	754	136	242	1279	61	272	1097	565
RTOR Reduction (vph)	0	0	68	0	0	107	0	4	0	0	0	0
Lane Group Flow (vph)	651	999	42	74	754	29	242	1336	0	272	1097	565
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA		Prot	NA	custom
Protected Phases	1	6		5	2		3!	8		7	4	14!
Permitted Phases			6			2						1
Actuated Green, G (s)	29.0	46.4	46.4	10.0	27.9	27.9	13.5	40.5		14.1	41.1	84.1
Effective Green, g (s)	29.0	46.4	46.4	10.0	27.9	27.9	13.5	40.5		14.1	41.1	84.1
Actuated g/C Ratio	0.22	0.36	0.36	0.08	0.21	0.21	0.10	0.31		0.11	0.32	0.65
Clearance Time (s)	4.5	5.5	5.5	4.5	5.0	5.0	4.0	5.0		4.0	5.0	4.5
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		2.0	2.0	2.0
Lane Grp Cap (vph)	765	1814	565	136	759	339	356	1573		372	1607	1078
v/s Ratio Prot	c0.19	0.20		0.04	c0.21		0.07	c0.26		c0.08	0.22	c0.22
v/s Ratio Perm			0.03			0.02						0.13
v/c Ratio	0.85	0.55	0.08	0.54	0.99	0.09	0.68	0.85		0.73	0.68	0.52
Uniform Delay, d1	48.4	33.5	27.6	57.8	51.0	40.8	56.2	41.9		56.1	38.8	12.3
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.13	0.70		1.00	1.00	1.00
Incremental Delay, d2	8.7	0.2	0.0	2.4	30.8	0.0	3.5	5.2		6.3	2.4	0.2
Delay (s)	57.1	33.7	27.6	60.2	81.8	40.9	67.1	34.5		62.4	41.1	12.5
Level of Service	E	C	C	E	F	D	E	C		E	D	B
Approach Delay (s/veh)		42.0			74.3			39.4			35.7	
Approach LOS		D			E			D			D	
Intersection Summary												
HCM 2000 Control Delay (s/veh)			44.4									
HCM 2000 Level of Service										D		
HCM 2000 Volume to Capacity ratio			0.88									
Actuated Cycle Length (s)			130.0							19.0		
Intersection Capacity Utilization			90.1%									
ICU Level of Service										E		
Analysis Period (min)			15									
! Phase conflict between lane groups.												
c Critical Lane Group												

Queues

1: Howe Avenue & Fair Oaks Boulevard

12/31/2024

											
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Group Flow (vph)	651	999	110	74	754	136	242	1340	272	1097	565
v/c Ratio	0.85	0.55	0.17	0.44	1.03	0.31	0.68	0.83	0.73	0.67	0.51
Control Delay (s/veh)	59.4	36.6	7.6	64.0	90.4	9.0	72.2	33.1	68.0	40.1	10.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	59.4	36.6	7.6	64.0	90.4	9.0	72.2	33.1	68.0	40.1	10.7
Queue Length 50th (ft)	273	259	3	60	~376	0	82	392	115	286	176
Queue Length 95th (ft)	323	323	48	110	#605	54	156	196	162	340	282
Internal Link Dist (ft)		794			572			911		448	
Turn Bay Length (ft)	530		100	300			260		205		270
Base Capacity (vph)	937	1814	632	211	734	441	422	1674	422	1692	1109
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.69	0.55	0.17	0.35	1.03	0.31	0.57	0.80	0.64	0.65	0.51

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

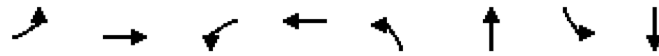
95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Queues

2: Howe Avenue & University Avenue

12/31/2024



Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Group Flow (vph)	133	425	147	284	43	1499	46	1165
v/c Ratio	0.61	0.65	0.66	0.57	0.26	0.59	0.28	0.45
Control Delay (s/veh)	63.3	22.9	66.0	42.1	59.4	26.2	53.2	44.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	63.3	22.9	66.0	42.1	59.4	26.2	53.2	44.4
Queue Length 50th (ft)	118	66	132	92	34	311	41	270
Queue Length 95th (ft)	174	112	191	128	74	#545	m66	363
Internal Link Dist (ft)		594		409		1494		911
Turn Bay Length (ft)	90		140		230		100	
Base Capacity (vph)	392	950	392	818	183	2546	166	2599
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.34	0.45	0.38	0.35	0.23	0.59	0.28	0.45

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.












Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

Queues

3: Power Inn Road/Howe Avenue & Folsom Boulevard

12/31/2024

											
Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Group Flow (vph)	92	684	300	591	507	191	1331	239	495	1513	139
v/c Ratio	0.47	0.80	0.76	0.55	0.33	0.66	0.81	0.15	0.83	0.72	0.20
Control Delay (s/veh)	73.7	55.1	73.1	43.7	3.2	74.1	49.0	0.2	68.8	37.3	14.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay (s/veh)	73.7	55.1	73.1	43.7	3.2	74.1	49.0	0.2	68.8	37.3	14.0
Queue Length 50th (ft)	42	291	138	236	19	88	406	0	226	415	36
Queue Length 95th (ft)	77	#426	198	326	43	137	528	0	302	527	90
Internal Link Dist (ft)		499		869			545			781	
Turn Bay Length (ft)	230		225		320	155		130	720		210
Base Capacity (vph)	755	858	762	1074	1847	735	1643	1583	1351	2559	833
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.12	0.80	0.39	0.55	0.27	0.26	0.81	0.15	0.37	0.59	0.17

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Queues

5: Howe Avenue & Swarthmore Drive/University Park Drive

12/31/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

8: Howe Avenue & American River Drive

12/31/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

Queues

11: Howe Avenue & Howe Avenue/U.S. Route 50 Ramp

12/31/2024

Lane Group

Lane Group Flow (vph)

v/c Ratio

Control Delay (s/veh)

Queue Delay

Total Delay (s/veh)

Queue Length 50th (ft)

Queue Length 95th (ft)

Internal Link Dist (ft)

Turn Bay Length (ft)

Base Capacity (vph)

Starvation Cap Reductn

Spillback Cap Reductn

Storage Cap Reductn

Reduced v/c Ratio

Intersection Summary

Queues

14: Howe Avenue & College Town Drive/Howe Avenue/College Town Drive/U.S. Route 50/2024

Lane Group
Lane Group Flow (vph)
v/c Ratio
Control Delay (s/veh)
Queue Delay
Total Delay (s/veh)
Queue Length 50th (ft)
Queue Length 95th (ft)
Internal Link Dist (ft)
Turn Bay Length (ft)
Base Capacity (vph)
Starvation Cap Reductn
Spillback Cap Reductn
Storage Cap Reductn
Reduced v/c Ratio
Intersection Summary

APPENDIX E: PUBLIC WORKSHOP MATERIALS



Please take the following brief survey. Your input is extremely valuable, and it will help the project team select the preferred future options and potential physical changes to Howe Avenue.

1. What is your zip code?: _____
2. How often do you typically travel on Howe Avenue?

☐ Daily

☐ Some Days (e.g., work commute, shopping, and errands)

☐ Weekly

☐ Every Couple of Weeks

☐ Monthly

☐ Rarely
3. How do you typically travel on Howe Avenue? Select all that apply.

☐ Driving in a Personal Vehicle

☐ Riding in a Personal Vehicle (being driven by someone)

☐ Public Transit

☐ Paratransit

☐ Walking/Rolling

☐ Bicycling (including using e-bikes)

☐ Scooting

☐ Ride-Sharing (Uber, Lyft), Taxi

☐ Other (please specify): _____

For the following questions, please rate your interest in each potential change to Howe Avenue on a scale from 1 (least interested) to 5 (most interested).

4. Improved public transit stop conditions and access

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

5. Improved walking conditions such as wider sidewalks and street trees

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

6. Improved walking and bicycling crossing of Howe Avenue

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

7. Improved parking

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

8. Improved bikeways on Howe Avenue (buffer bike lanes or separated bikeways with a post or curb)

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

9. Reduced driver speed

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

10. Improved driving safety

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

11. Other transportation safety-related improvements

(please specify): _____

I = least interested, 5 = most interested

☐ 1☐ 2☐ 3☐ 4☐ 5

The following optional three demographic questions help us determine if we are getting a broad and representative range of community perspectives. Please still submit this survey even if you decide to not answer these three optional questions.

12. What best describes your race or ethnicity? Select all that apply. (optional)

☐ Asian☐ Black or African American☐ Hispanic or Latino/a/x☐ Middle Eastern or North African☐ Native American or Alaska Native

☐ Native Hawaiian or other Pacific Islander☐ White☐ Prefer not to say☐ Other (please specify): _____
13. What is your age? (optional)

☐ Under 18☐ 18 to 24 years☐ 25 to 34 years☐ 35 to 44 years☐ 45 to 64 years☐ 65 to 84 years☐ 85 to 99 years☐ 100 years and older
14. Do you identify as someone with a mobility or related disability that impacts how you travel? (optional)

☐ Yes☐ No☐ Prefer not to say

15. Do you have any other comments related to mobility and transportation safety on Howe Avenue?

16. Please provide email address if you want to be added to our Howe email noticing list:

Thank you!

Por favor responda a la siguiente breve encuesta. Su opinión es extremadamente valiosa y ayudará al equipo del proyecto a tomar decisiones sobre las opciones y mejoras preferidas a futuro y los posibles cambios en Howe Avenue.

1. ¿Cuál es su código postal?: _____
2. ¿Viaja usted a menudo por Howe Avenue?

☐ Diariamente

☐ A veces (por ejemplo, viajes diarios al trabajo, compras y recados)

☐ Semanalmente

☐ Cada par de semanas

☐ Mensualmente

☐ Raramente
3. Cómo viaja por Howe Avenue? Seleccione todo lo que aplica.

☐ Conduzco en mi auto

☐ Pasajero en auto

☐ Transporte público

☐ Paratransito

☐ Caminando/Rodando

☐ En bicicleta (incluyendo bicicletas eléctricas)

☐ Patinando

☐ Viaje compartido (Uber, Lyft), Taxi

☐ Otro (especifique): _____

Para las siguientes preguntas, califique su interés en cada posible cambio en Howe Avenue en una escala del 1 (menos interesado) al 5 (más interesado).

4. Mejores condiciones y acceso a las paradas de transporte público
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

5. Mejores condiciones para caminar, como aceras más anchas y árboles en las calles
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

6. Mejorar los cruces de peatones y bicicletas en Howe Ave
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

7. Mejorar el estacionamiento
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

8. Mejores carriles para bicicletas en Howe Ave (carriles para bicicletas protegidos o carriles para bicicletas separados con un poste o bordillo)
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

9. Reducciones de velocidad
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

10. Mejores condiciones de conducción
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

11. Otras mejoras relacionadas con la seguridad del transporte
(por favor especifique): _____
1 = menos interesado, 5 = más interesado

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

Las siguientes tres preguntas demográficas son opcionales y nos ayudan a saber si estamos obteniendo una gama amplia y representativa de perspectivas comunitarias. Entregue esta encuesta incluso si decide no responder estas tres preguntas.

12. ¿Cuál de estas opciones mejor describe su raza u origen étnico? Seleccione todo lo que aplica. *(opcional)*

☐ Asiático

☐ Negro o afroamericano

☐ Hispano o Latino/a/e

☐ Del Medio Oriente o Norte de África

☐ Nativo americano o nativo de Alaska

☐ Nativo de Hawái u otra isla del Pacífico

☐ Blanco

☐ Prefiero no decir

☐ Otro (especifique): _____
13. ¿Cuál es su edad? *(opcional)*

☐ Menor de 18 años☐ 18 a 24 años

☐ 25 a 34 años☐ 35 a 44 años

☐ 45 a 64 años☐ 65 a 84 años

☐ 85 a 99 años☐ Mayor de 100 años

14. ¿Se identifica como alguien con una discapacidad de movilidad o discapacidad relacionada que afecta su forma de viajar? *(opcional)*

☐ Sí

☐ No

☐ Prefiero no decir

15. ¿Tiene algún otro comentario relacionado con la accesibilidad y la seguridad en Howe Ave?

16. Por favor proporcione su correo electrónico si desea que lo agreguemos a nuestra lista de avisos sobre Howe:

- ¡Gracias!



CONNECTING HOWE AVENUE

SAFETY & MOBILITY PLAN

Workshop #1

Project Background and Existing Conditions

Project Team

City of Sacramento

Jennifer Donlon Wyant, Transportation Planning Manager

Ryan Dodge, Associate Planner

DKS Associates

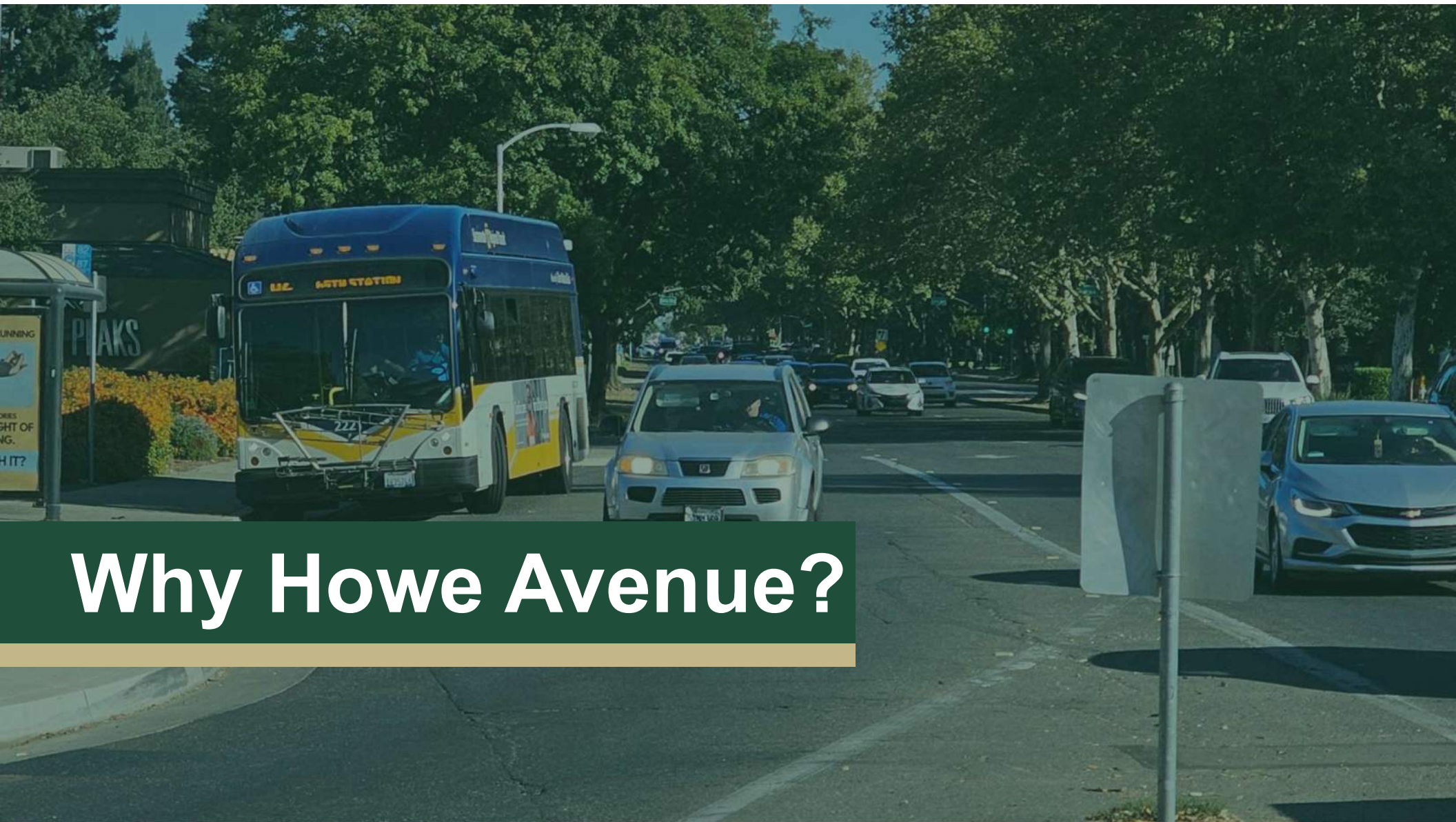
Josh Pilachowski

Liz Aguilar

Sylinda Villado

Agenda

- Why Howe Avenue?
- Planning Area and Existing Conditions
- Community Needs
- YOUR Needs
- Next Steps



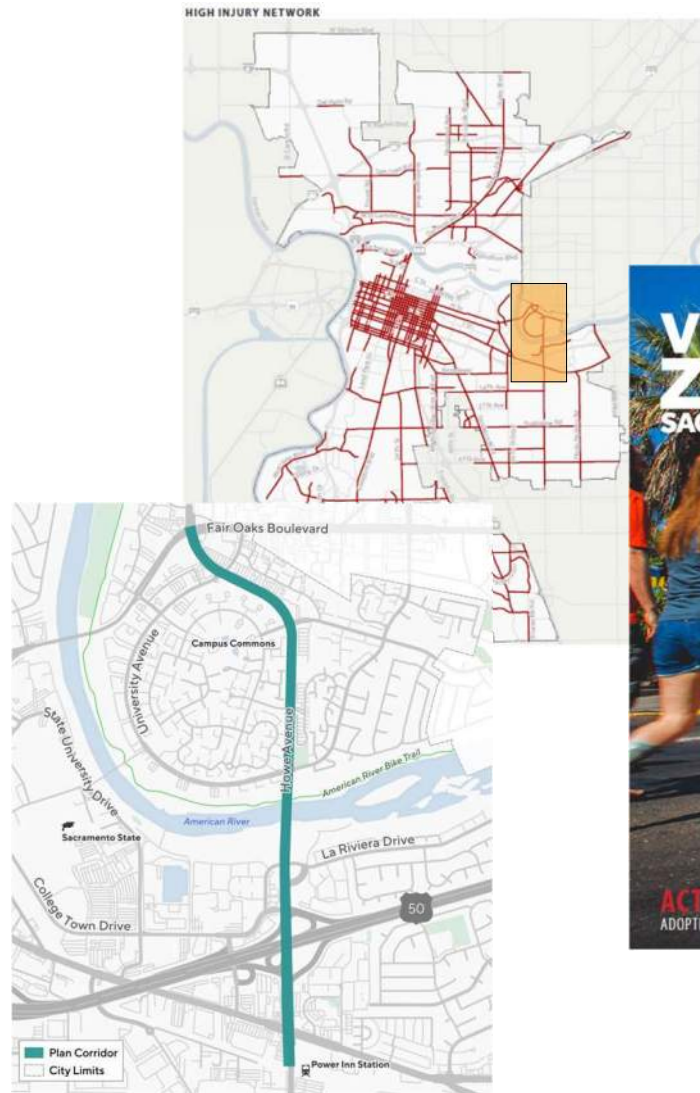
Why Howe Avenue?

Why?

Critical corridor serving:

- Sacramento State
- Students
- Businesses
- Residents and communities

**TOP 10 CORRIDOR WITH
THE HIGHEST NUMBER
OF FATAL AND SEVERE
INJURY CRASHES.**





Why? Planning Goals

The goal of the plan is to identify a data-driven, community-supported plan for a future Howe Avenue that will improve safety and mobility.

This Workshop will:

- Raise community awareness of the project
- Learn about *your* experiences and needs for the corridor
- Help us identify locations of need that don't appear in our data collection

Schedule



Engagement



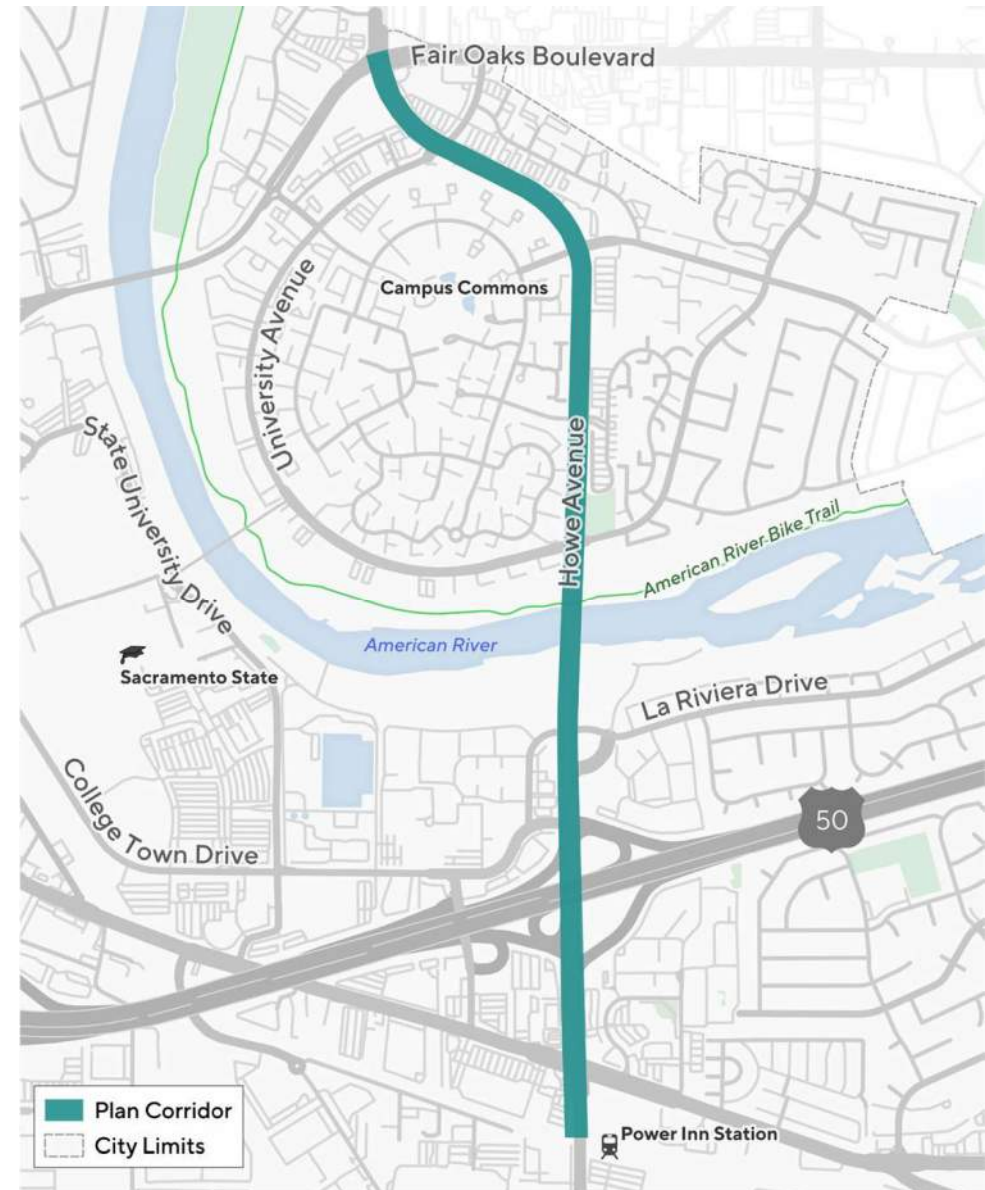


Planning Area and Existing Conditions

Planning Area

HOWE AVENUE

- Fair Oaks Boulevard to Power Inn Light Rail Station
- Two miles

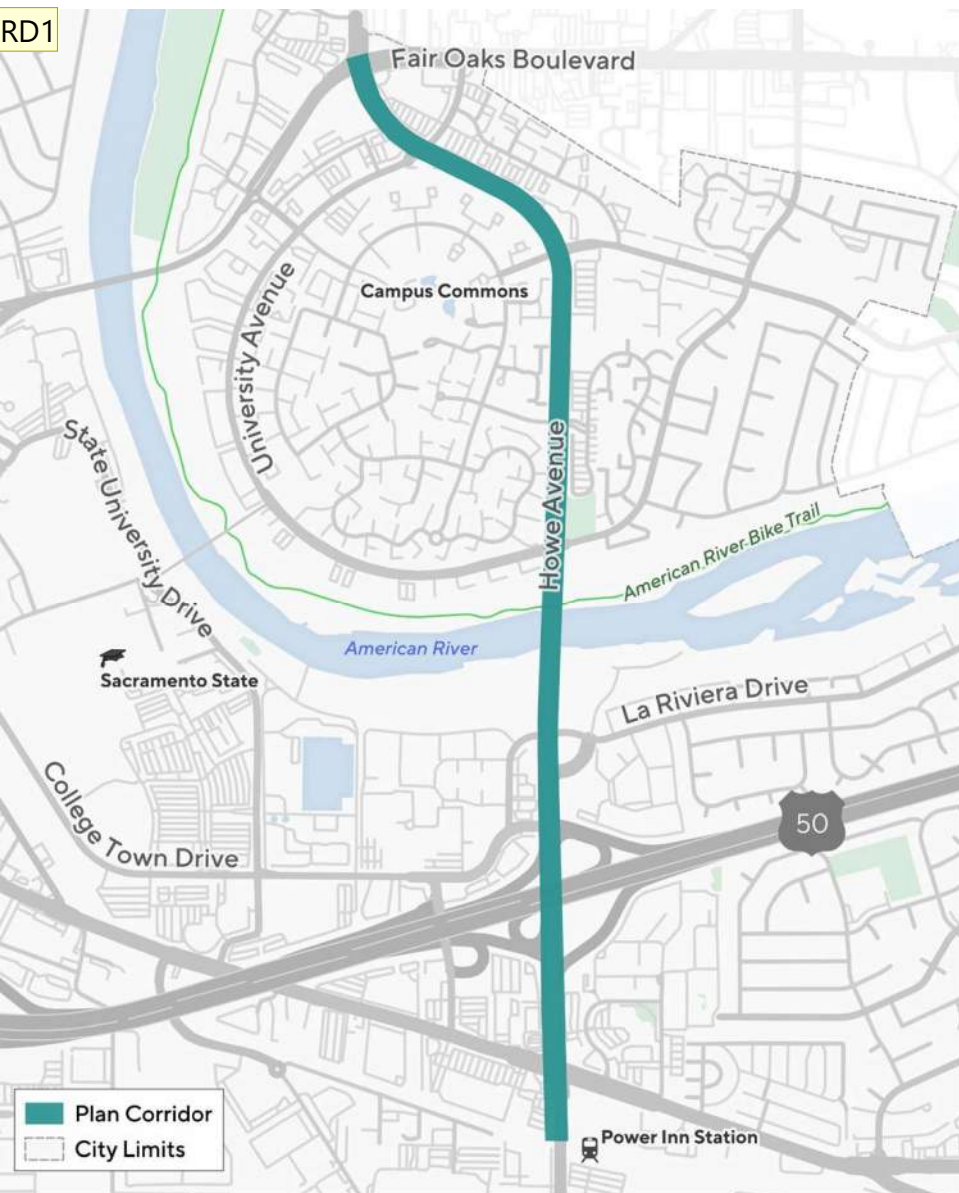


Existing Conditions: Project Team Site Walk

The team walked and drove the entire corridor, focusing on multimodal conditions and behavior along key segments and intersections.



RD1



Existing Conditions: Land Use

- Commercial and office
- Residential
- Regional parks and trails

Slide 10

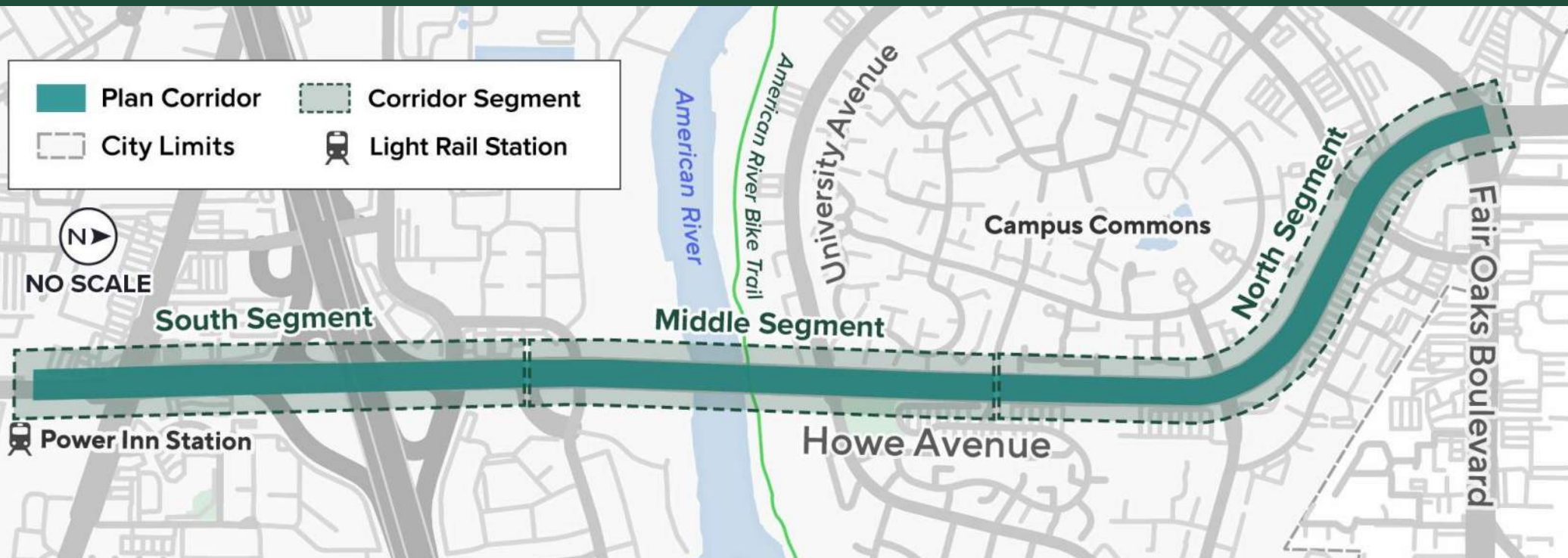
RD0 Maybe move this to just after the agenda slide? If I knew nothing about the project then my first question would be about Howe from where to where.

Ryan Dodge, 2024-10-28T16:58:05.251

RD1 Please change Folsom Boulevard to Power Inn Light Rail Station (south of Folsom Boulevard).

Ryan Dodge, 2024-10-28T17:01:43.473

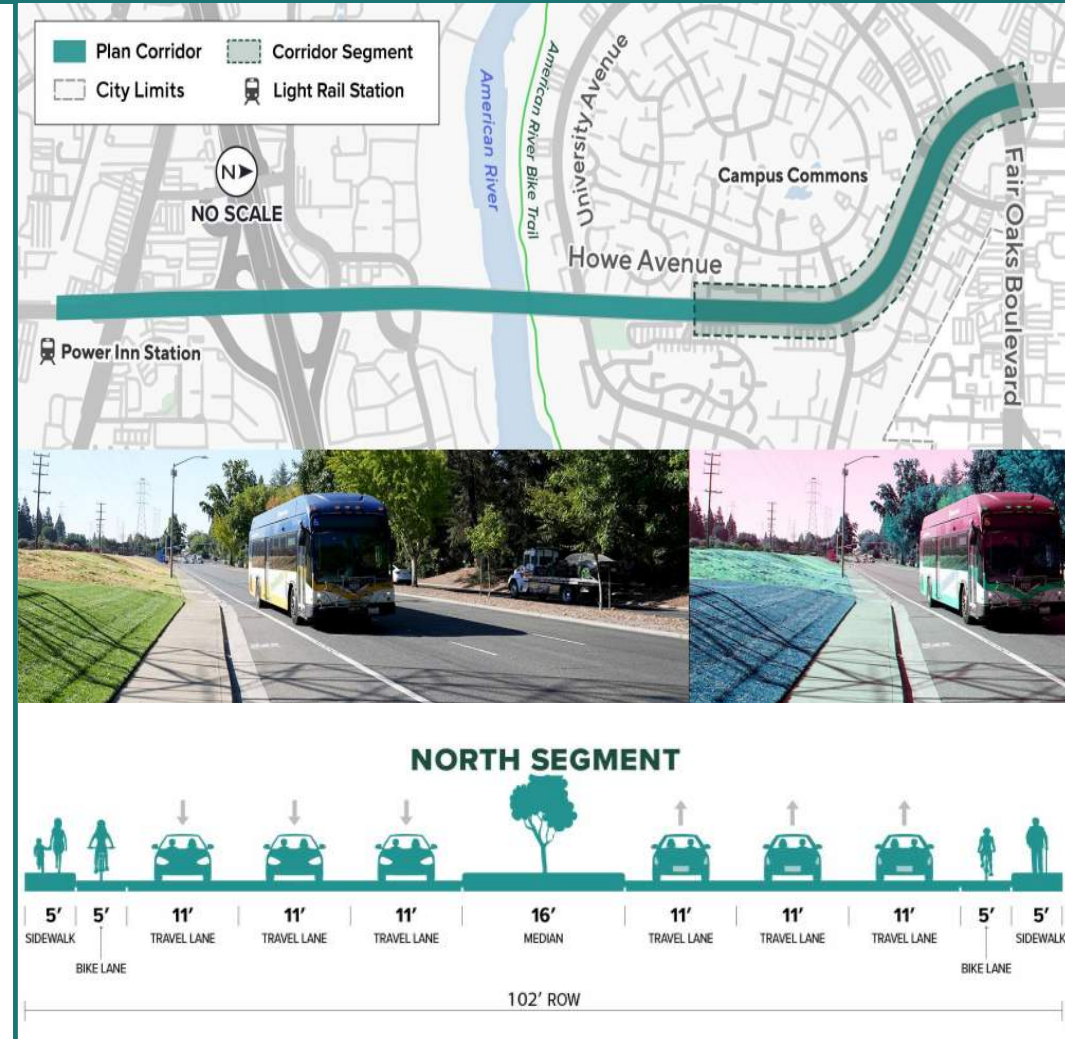
Existing Conditions: Street



North Segment: Fair Oaks Boulevard to Swarthmore Drive

The northern segment of the study corridor stretches from Fair Oaks Boulevard to Swarthmore/University Park Drive. The segment is adjacent but not directly accessible from residential to the west, and large parking lots associated with commercial and office uses to the east.

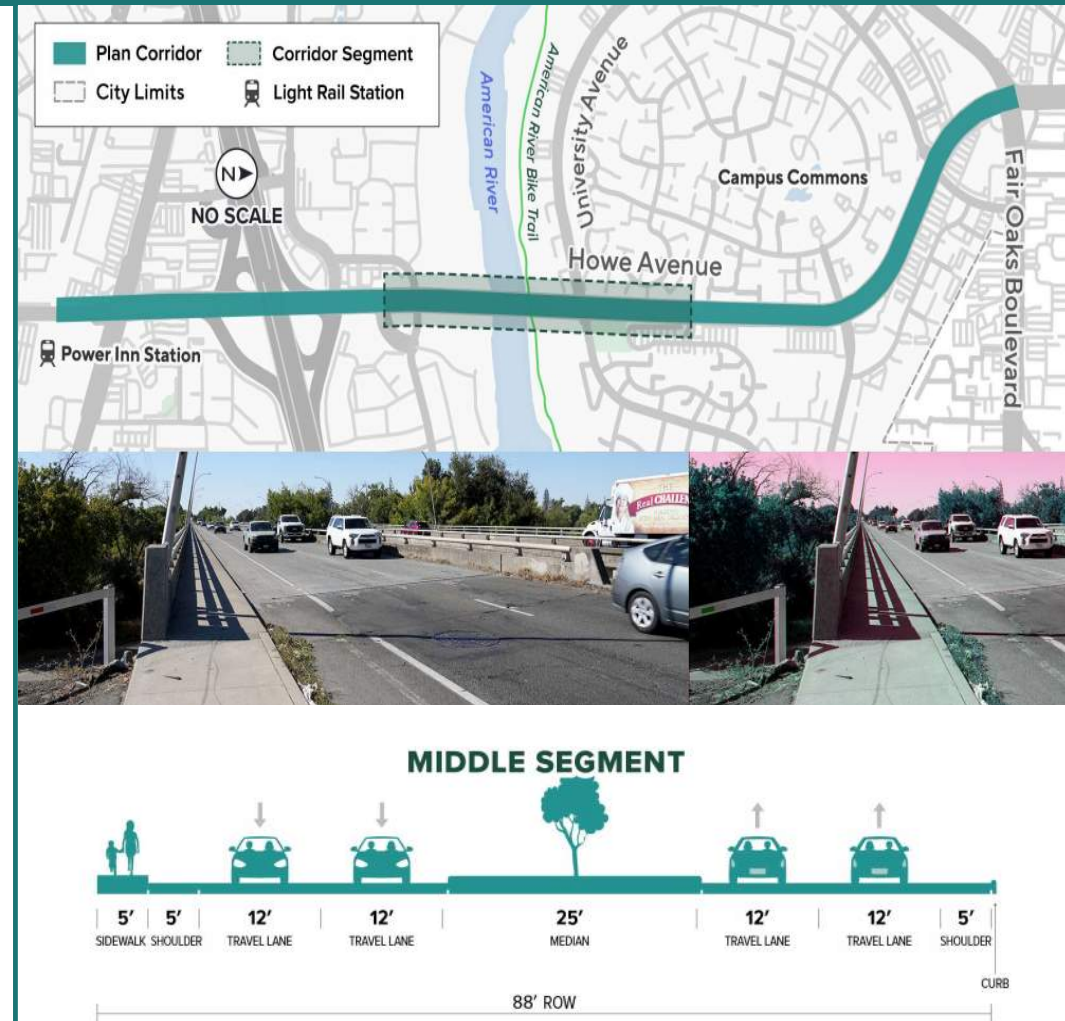
- **Number of Lanes:** Six (three in either direction) with a median
- **Sidewalks:** Consistent on the northbound (east) side and only present between Fair Oaks and American River Drive on the southbound (west) side
- **Bikeways:** Inconsistently unstriped and unsigned bicycle lane/shoulder on both sides, south of University Drive
- **Transit:** Yes (Line 26)



Middle Segment: Swarthmore to La Riviera

The middle segment begins at Swarthmore Drive and ends at the access road to La Riviera Drive to the northbound side of Howe Avenue, crossing the American River in between. Adjacent land uses include a business park at the segment's northern end, parks, the river, and some commercial uses.

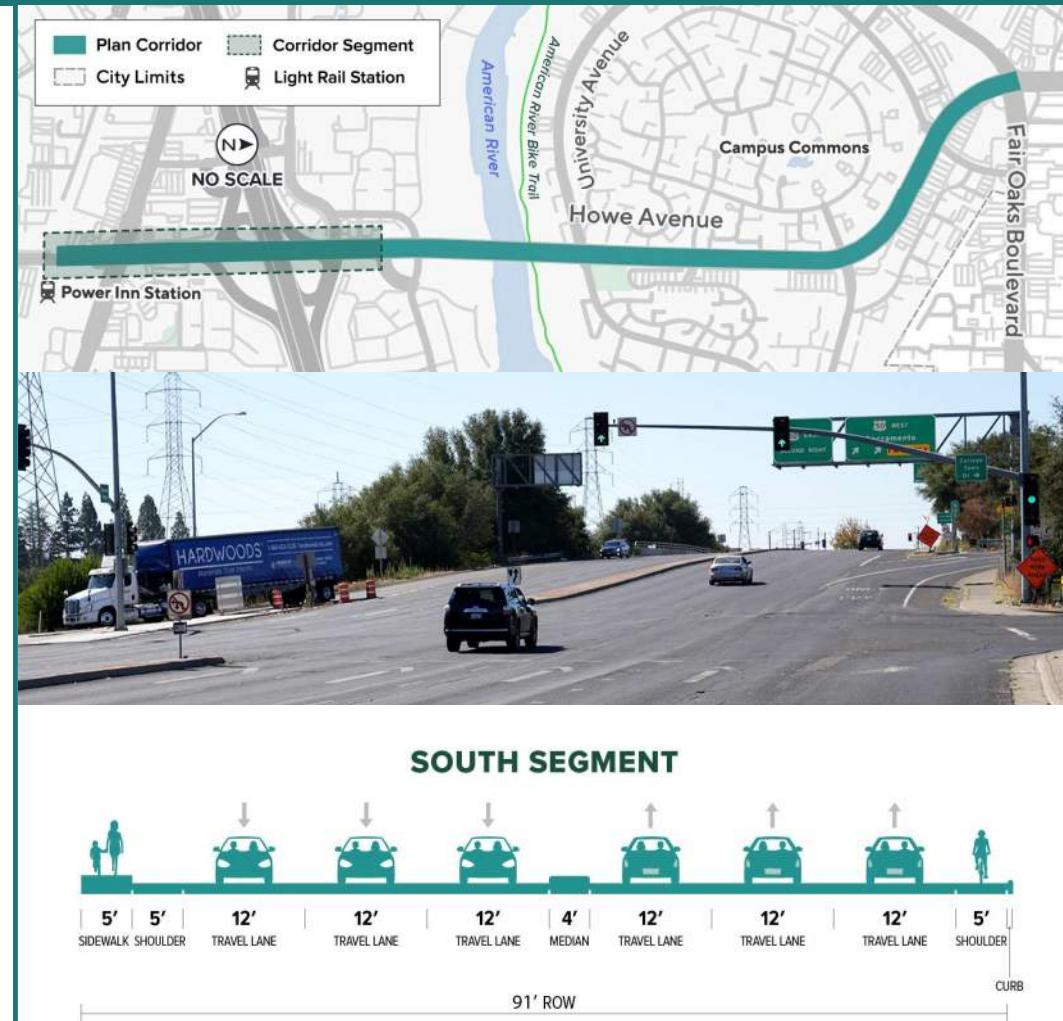
- **Number of Lanes:** Four (two in either direction) with a divided roadway
- **Sidewalks:** Both sides, with gaps separating
- **Bikeways:** Unstriped and unsigned shoulder on both sides
- **Transit:** Yes (Line 26)



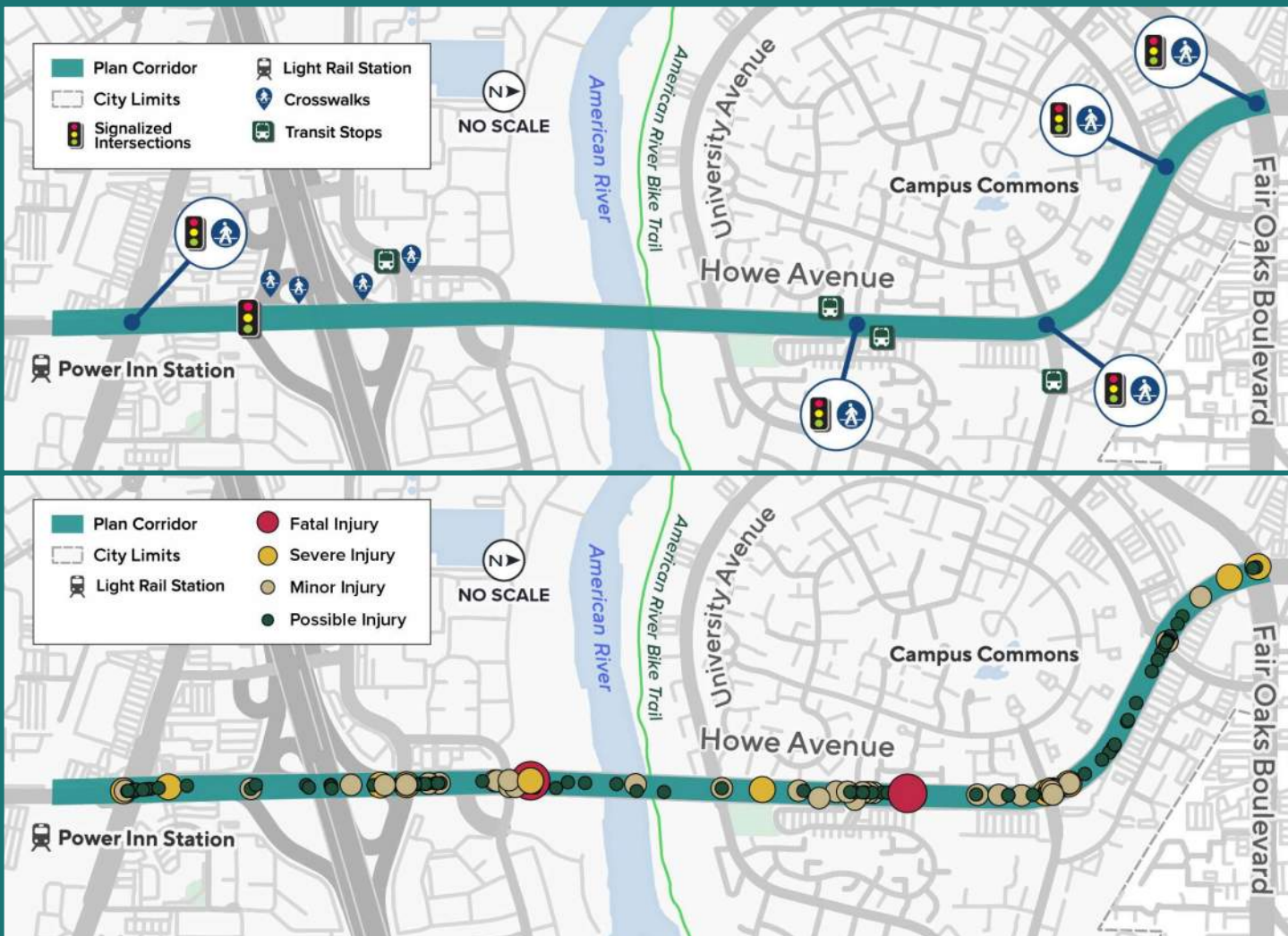
South Segment: La Riviera to Folsom

The south segment starts at the access road to La Riviera Drive and ends at Folsom Boulevard, including the freeway overpass. Adjacent uses aside from the freeway include mainly retail with some residential and commercial with parking fronting the road.

- **Number of Lanes:** Six (three in either direction) with a median
- **Sidewalks:** Southbound (west) side only
- **Bikeways:** unstriped and unsigned shoulder on both sides
- **Transit:** No



Existing Conditions



DATA COLLECTION

- Vehicular traffic and congestion
- Vehicle speeds
- Sidewalks and Crosswalks
- Bikeways
- Transit
- Safety



Community Needs

Walking/Rolling Needs

SIDEWALKS

- Consistent and sufficient width
- Low stress and comfortable
- Access to homes, businesses, and education



INTERSECTIONS AND CROSSING OPPORTUNITIES

- Frequency of crossings
- Visibility and line of sight

SHARED USE PATH ACCESS

- Access to Jedediah Smith Memorial Trail

Bicycling Needs

BIKEWAYS

- Bidirectional facilities without gaps
- Access to homes, businesses, and education
- Low stress and comfortable for all ages

INTERSECTION OPERATIONS

- Minimal zones of conflict
- Frequency of crossings
- Visibility and line of sight

SHARED USE PATH ACCESS

- Access to Jedediah Smith Memorial Trail



Slide 18

RD0

Please change Bicyclist to Bicycling Needs.

Ryan Dodge, 2024-10-28T17:11:15.667

Transit User Needs

TRANSIT STOP ACCESS

- Bidirectional access to bus stops for all users
- Access to Power Inn Light Rail Station
- Access to homes, businesses, and education

STOP AMENITIES

- Shade, seating, lighting, and maintenance

OPERATIONAL SUPPORT

- Considerations for transit operations for improved on-time performance



Driving Needs

ACCESS

- Access to homes, businesses, and education
- Consistent design

OPERATIONS

- Minimal conflict
- Frequency of crossings
- Visibility and line of sight

RD0



Slide 20

RD0 Please change Auto/Truck to Driving/Riding Needs or something similar, to match the survey.
Ryan Dodge, 2024-10-28T17:15:52.315

JD1 This slide is inconsistent with the other modes. It talks about crashes and discusses needs in a different manner.
See my edits.
Jennifer Donlon Wyant, 2024-11-05T00:10:29.848

YOUR Needs

What are your needs for transportation changes on the corridor?

Let us know tonight!

- Take the survey
- Mark up a map
- Tell your friends, neighbors, businesses about the online survey and map
- Public comment is open until December 31

Help us develop a plan to **improve safety and access** on Howe Avenue!



For more information, visit our website at:
ConnectingHoweAve.org



311 Español | 中文 | Tagalog | Tiếng Việt | Hmoob | Русский

City of
SACRAMENTO



Next Steps

- December 2: Virtual community meeting →
- Late Winter-Spring 2025: Community input on Alternatives Analysis
- Summer 2025: Draft Plan
- Winter 2025: Final Plan for Council approval

DECEMBER 2, 2024

6:30 PM – 7:30 PM

VIA ZOOM MEETING

Register at: bit.ly/howe-register

Meeting ID: 829 9985 3999

Passcode: Howe

Registration is required to attend

JD1



Slide 22

JD0 Please make this slide look better
Jennifer Donlon Wyant, 2024-11-05T00:37:44.455

JD1 Please provide the detailed information and QR code for folks to register for the meeting
Jennifer Donlon Wyant, 2024-11-05T00:38:12.741



CONNECTING HOWE AVENUE

SAFETY & MOBILITY PLAN

Thank you!

PROJECT CONTACT:

Jennifer Donlon Wyant

JDonlonWyant@cityofsacramento.org

RDO

For more information, visit our website at:
Para más información visite nuestro sitio web en:

 www.ConnectingHoweAve.org



Slide 23

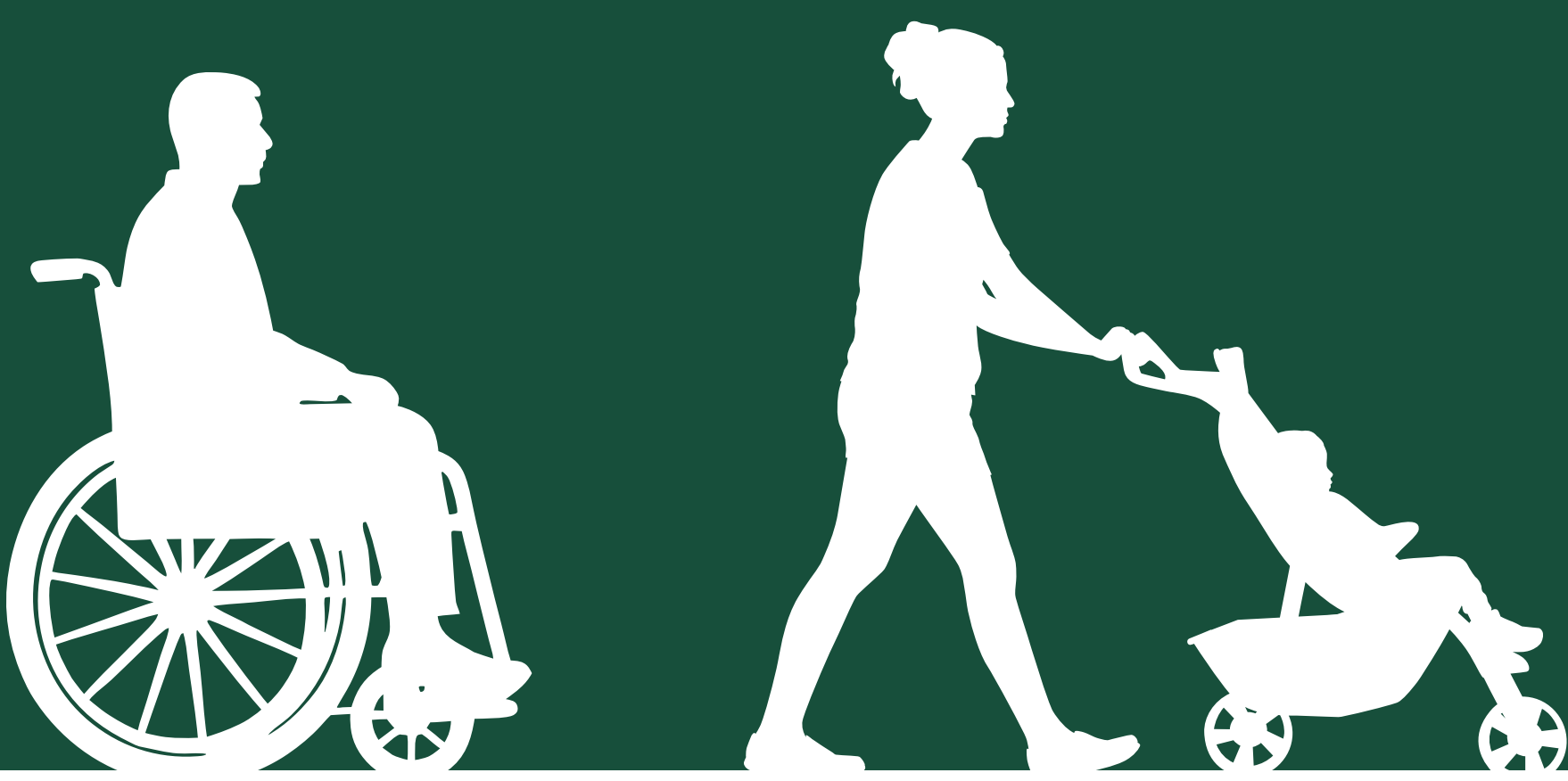
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Are we going to list contact person at bottom, or webpage?

Ryan Dodge, 2024-10-28T17:16:39.917

Walking & Rolling

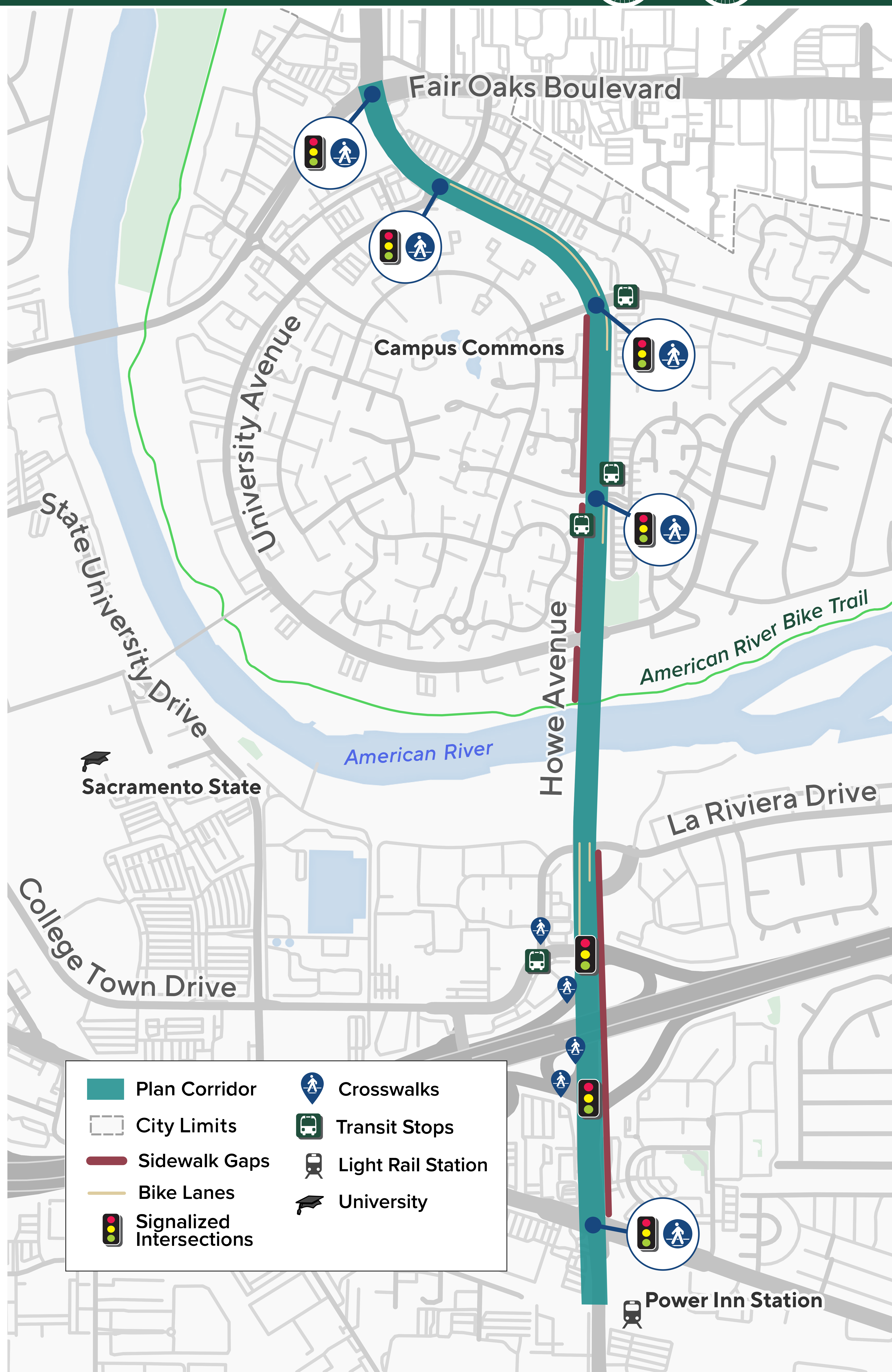
PLEASE LEAVE YOUR COMMENTS ABOUT
WALKING & ROLLING ALONG HOWE AVENUE.



Plan Corridor	Crosswalks
City Limits	Transit Stops
Sidewalk Gaps	Light Rail Station
Bike Lanes	University
Signalized Intersections	

Biking

PLEASE LEAVE YOUR COMMENTS ABOUT BIKING
ALONG HOWE AVENUE.



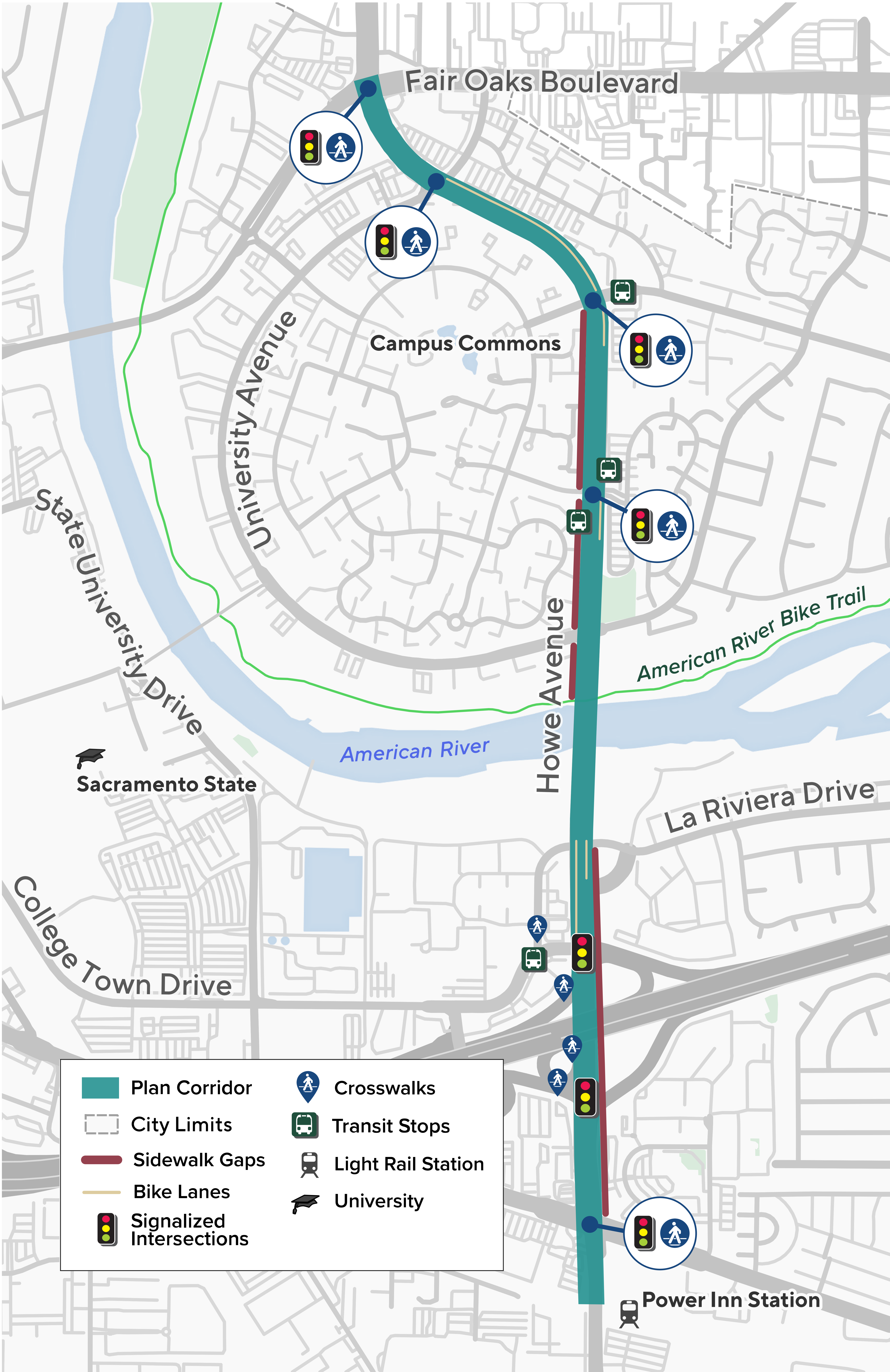
Taking Transit

PLEASE LEAVE YOUR COMMENTS ABOUT
TAKING TRANSIT ALONG HOWE AVENUE.



Driving

PLEASE LEAVE YOUR COMMENTS ABOUT
DRIVING ALONG HOWE AVENUE.



APPENDIX F: PUBLIC COMMENT



SOCIAL PINPOINT COMMUNITY COMMENTS

INTERSECTION	COMMENT
<i>WALKING</i>	
FAIR OAKS BLVD	Too dangerous to cross Fair Oaks to get to Raleys or Starbucks. They don't seem to see pedestrians.
UNIVERSITY AVE	pedestrian island
	prioritize pedestrian crossing from campus comments to UV
	ped refuge for crossings
SWARTHMORE DR	street lighting especially at cross walks
	There is no sidewalk from American River to Swarthmore, so the public uses Campus Commons private property for access to the southbound bus stop just south of Swarthmore.
AMERICAN RIVER OVERPASS	separated walking path with greenery buffer
LA RIVIERA ACCESS RD	There should be access from the levee top trail to the bridge sidewalk that does not require you to jump the guardrail.
	There is no way for a pedestrian to get from La Riv to Howe on the North bound side of Howe
FOLSOM BLVD	Large gap in sidewalk on east side of PG&E Brighton Substation (south side of Folsom) to 8240 Folsom Blvd. Unsafe for pedestrians.
	tough to cross Folsom to LR - take alternate route
POWER INN LRT STATION	direct access to Power Inn station from Folsom
<i>BICYCLING</i>	
FAIR OAKS BLVD	bike detection at signals and along entire corridor
	We need bike lanes the full north/south route.

INTERSECTION	COMMENT
AMERICAN RIVER DR	driveway turnout @ apartment complex is dangerous for cyclists
	"lot of jump bikes
	bike trail on Northrop closest"
SWARTHMORE DR	separated bike lanes
	bike lane would be nice
	trail connection here for cyclists
TRANSIT	
SWARTHMORE DR	connector shuttle every 15 mins connecting to commercial + medical centers
	shade/cover from weather @ transit stops
	bus lane or light rail
	light rail please
POWER INN LRT STATION	Station feels isolated
DRIVING	
FAIR OAKS BLVD	The right turn signal on southbound Howe at Fair Oaks needs to be 'red' just a bit longer. It starts blinking yellow which for some people, they know to use caution and yield...but for at least half, they fly thru at speed and do not allow the people coming in from the turn lane or the U Turn - to get into the Raley/Starbux/CVS parking area off of Fair Oaks Blvd. I have almost been hit by people not yielding and i am trying to cross into that parking area. It would help us motorists to not have to fight it out.
	Signal timing issues
	Crazy misaligned intersection. for the speed of traffic coming across North/South it is really off-set.
	Also- stop the southbound right hand arrow turn land from interfering with traffic with right-of-way (coming in north taking a left. I don't

INTERSECTION	COMMENT
	shop at Raleys/Starbux there because it mostly is an unsafe battle to get past those cars to get into the lot near the OrangeTheory entrance off FO Blvd.
	"Fair Oaks light is long
	congestion during peak hours"
	Narrower lanes for traffic calming
UNIVERSITY AVE	Taking a left turn at university is difficult during rush hour
	"many accidents at Howe/American
	Reduce spaces?"
	When driving eastbound on American River (or turning left onto Howe from the Campus Commons side of American River), cars are in danger of being hit at high speeds by southbound Howe traffic who ignore the red light (or can't easily see it's gone red because of the blind curve coming towards the intersection). Perhaps retiming the lights so that the outflow traffic eastbound on American River from Campus Commons doesn't get a green immediately after the red to stop southbound Howe traffic would cause fewer accidents and near misses (including pedestrians trying to cross Howe on the north crosswalk along American River).
AMERICAN RIVER DR	avoid N Howe and take American River to Fair Oaks
	Cars use this RHT to access Fulton (via Munroe). They drive through this intersection as if it's not a light and cause problems for cyclists and pedestrians.
	Driveway is confusing for drivers
	Super wide traffic lanes here due to the merge and the paint is unclear. Make the lanes narrower to reduce vehicle speed
SWARTHMORE DR	Extend the LHT lane further at Swarthmore by several car lengths. Because the speed driving North on Howe is high during heavier traffic times, need more room to slow down to safely enter the LHT lane at Swarthmore.

INTERSECTION	COMMENT
	in general, the speeds on Howe Ave are just usually too fast. I work out at the Rio Del Oro club and live right across the street. I do NOT feel safe to walk or ride my bike across Howe- so i DRIVE 1/4 mile to the gym when i would love to ride my bike. It is just so dangerous. Listening to the traffic at night - esp. THUR Nights Motorcycle races--I am kind of afraid to go out at all onto that road. It is a shame we can't get some better modulated traffic speeds and wider/safer for peds and bikes. Def need to widen it? Run the lite rail down it? etc.
AMERICAN RIVER DR OVERPASS	Speeds are too high over the river and down towards Fair Oaks Blvd. The light at Swarthmore slows traffic down, but it is a speedway from the I-50 interchange to Swarthmore. With the incline to the bridge, people often drive 15+ over the posted sped limit.
LA RIVIERA ACCESS RD	short on ramps - cars come fast, can't accelerate to avoid conflict reduce speed and improve signal times
US 50	The bulb out for the LHT is at an awkward angle for drivers making a LHT. Many vehicles hit the traffic furniture, scraping the left side of their vehicles.
POWER INN LRT STATION	signal (turning left) for power inn LRT station takes too long - needs better timing
SAFETY	
FAIR OAKS BLVD	Merge lane creates conflicts Congestion and aggressive drivers at shopping center
UNIVERSITY AVE	Agree with the cutout on concrete where people like to "camp" on the sidewalk. not safe and is an eyesore to the community Prevent the sidewalk cutout from being used for unsheltered camping. With traffic going by at high speeds, this is an unsafe location for homeless camping. In addition, the unmanaged trash generated at this location is a health and safety and community quality of life issue.
AMERICAN RIVER DR	this intersection does not feel safe to cross on foot or walking a bike across or etc. Many like to blow through the red light and speeds are too high. I would love to ride my bike to the gym on Scripps,

INTERSECTION	COMMENT
SWARTHMORE DR	however instead I drive! I just don't ride anywhere in traffic anymore. But even walking across feels like a challenge. It is a LONG crossing so more warning for cars/better marking may be needed.
	Sound barriers should be established and road surfaces installed that minimize road noise from impacting the adjacent neighborhoods.
	Reduce speed
SWARTHMORE DR	make the MERGE area more clear. Trees are growing over signs and there is no paint showing the 'zipper' lane is ending. with speed of traffic on this road it is so dangerous to sit at the Swarthmore light hoping nobody careens into you and kills you as they jostle for position. The speed is TOO HIGH on this road-people are going 50-80MPH in many cases.
AMERICAN RIVER OVERPASS	Create comfortable trail access
COLLEGE TOWN RD	lots of crashes, drunk driving near bar
FOLSOM BLVD	change center divide concrete so people cannot STAND there in traffic asking for money. So dangerous and they are inches from cars going 50MPH + - same at F.O and Howe intersection.
POWER INN LRT STATION	There is a section of the railing that has been removed so people can cut though into the parking lot instead of going all the way down to power inn rd and turning in where cars enter. I have used this many times coming from the light rail stop. This should be made official and have the dirt section between the path and the parking lot paved and curb cuts added so bike riders don't have to dismount every time we use it.
OTHER COMMENTS	
FAIR OAKS BLVD	would take bike trail, no real trail access on Howe
UNIVERSITY AVE	new infill development will create traffic