2026 CALL FOR PROJECTS

SUPPLEMENTAL APPLICATION GUIDE

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Attachment A: Sample Supplemental Application

Introduction and Purpose of Guide

The Supplemental Application, in Excel format, has been developed to encompass all components necessary for the Orange County Transportation Authority's (OCTA's) Regional Traffic Signal Synchronization Program (RTSSP) 2026 Call for Projects. This completed Supplemental Application must be submitted in hard copy and electronically, both in PDF and Excel format, as per the latest update to the Comprehensive Transportation Funding Program (CTFP) Guidelines. A partially filled Sample Supplemental Application is included at the end of this Guide.

The Supplemental Application will, as much as possible, identify what is automatically calculated versus what requires an input. For example, **green** shaded cells denote **INPUT** fields and **gray** shaded cells denote **AUTO-FILL** fields. **Note**: The color on your screen may vary due to screen resolution.

The following sections will detail the required updates to each tab in the Excel file to complete the Supplemental Application.

If you have additional questions or need assistance, please email TrafficOps@octa.net.

Title Page

This page will mostly be auto-populated based on information entered in **Section 1.a-j**. The only entry needed is the **Date of Submission** in Row 13. Please be sure to update this every time there is a resubmittal. This will help with version control.

Note: It is the applicant's responsibility to make sure all auto-populated fields are correct.

Table of Contents (Checklist)

Populate the corresponding page numbers in **Column B** after the rest of the application is filled out. Make sure to avoid any page number overlaps.

Section 1: Key Technical Information

This section will be completed in three different tabs (Section 1.a-j, Section 1.k-l, and Section 1.m).

Part a: Type and Name of Project

Use the drop-down menu in **Row 3** to select the type of project. The following are the eligible types of projects per the CTFP Guidelines:

- Corridor: shall be a single, multijurisdictional eligible corridor that includes either
 - 1) At least 20 signals;
 - 2) At least five (5) miles in length;
 - 3) At least three (3) eligible local agencies, 8 signals, and a density of four (4) signals per mile; OR
 - 4) The full length of the corridor.
- **Grid**: shall be multijurisdictional with a minimum of two (2) local, eligible agencies (excluding Caltrans) and consist of one main corridor that is specifically identified with a maximum of two (2) crossing corridors
- **Route**: must be supported with actual vehicle counts and a description of the proposed route to demonstrate that the interconnect corridors do form a coherent route. A "route" project shall meet the minimum eligibility requirements as described above for a "corridor" project. For "route" projects encompassing more than two (2) corridors, it is imperative to provide current Origin-Destination (OD) count data. This data should include a detailed depiction of the route and clearly highlight the OD points using the collected vehicle data. Discussion with OCTA staff regarding OD data gathering prior to collection for the application is encouraged. The analysis should illustrate how the route offers a coherent and logical path, detail the expected benefits, and explain the rationale behind drivers' choice of this particular route. Additionally, routes must maintain the integrity of eligible and/or previously synchronized corridors, avoiding any disruption to established routes to ensure seamless connectivity. The provided data should be recent, preferably within the last 12 months, and collected during peak traffic hours. Include maps and diagrams that illustrate the OD points and the flow of the route. A draft application must be submitted at least four (4) weeks prior to the final submission deadline. Failure to submit a draft application by this deadline will result in automatic disqualification of the project. By adhering to these guidelines, applicants will ensure their projects align with the objectives of Project P.

Enter the **Project Name**, which is the Name of the Corridor/Grid/Route in **Row 4**. Be sure to include all names for a corridor that does not carry the same name from end to end. Keep it short. There is no need to include "Regional Traffic Signal Synchronization Program" or "RTSSP" in the name.

Part b: Project Limits

Enter the project limits in **Row 7**, starting with the Northern/Western limit to the Southern/Eastern limit. If it is a grid project, please enter the limits of the main corridor. The full extent of the grid should be explained in **Section 2**. If it's a route, enter the starting and ending intersections.

Part c: Project Length

Enter the project length in miles to the nearest hundredth place. Include all route and grid corridors.

Part d: Number of Signalized Intersections

Enter the number of signalized intersections along the corridor/grid/route that will be synchronized as part of this project in **Cell B13**.

- The count shall include all Caltrans intersections, regardless of an executed cooperative agreement.
- This shall NOT include any offset signals that will be included with the project for synchronization. The number of offset signals shall be entered in **Cell H13**.

Part e: Participating Agencies

Using the checkboxes, select all the participating agencies that will be a part of this project, including the applicant agency.

Caltrans shall only be selected if <u>ALL</u> participating agencies that have Caltrans signals in their jurisdiction pledge to sign a Cooperative Agreement with Caltrans. The pledge shall be included with the letters of support from all participating agencies. The applicant agency will pledge this in the application cover letter, if applicable.

All participating agencies, and Caltrans if included, will be required to provide a letter of support in **Appendix D** and an approved resolution in **Appendix D**.

Part f: Lead Agency

Using the checkboxes, select the Lead Agency. The Lead Agency is responsible for delivering the project, collecting the required match, and filing the Final Report with OCTA Local Programing.

Choices include: OCTA and all eligible Orange County cities, and the County of Orange. Select only one option. Caltrans is not an eligible choice, though they may appear in the drop-down menu. OCTA WILL NOT BE AN OPTION IN THE 2026 CALL FOR PROJECTS.

If a local agency is chosen as the Lead Agency, please use the drop-down menu to select the agency. This dropdown menu pulls data from the list of Participating Agencies on the *Title Page* so you may see Caltrans listed. However, Caltrans CANNOT be a lead agency.

<u>Note:</u> An additional 10% of total project cost will be added to applications that designate OCTA as the lead agency. This is strictly used to calculate the benefit to cost ratio score. This additional 10% inflation will not be added to the proposed budget. [OCTA WILL NOT BE LEADING PROJECTS FOR THE 2026 CALL FOR PROJECTS]

Part g: Is this project on either the Signal Synchronization Network or Master Plan of Arterial Highways?

Select Yes or No. An application can only be accepted if the project is along the Signal Synchronization Network (SSN) or Master Plan of Arterial Highways (MPAH). IF NEITHER IS TRUE, THEN THIS PROJECT DOES NOT QUALIFY FOR PROJECT P FUNDING. If you are unsure, please contact TrafficOps@octa.net.

Part h: Project Start and End Dates

This field will automatically populate using the information provided in Section 6.

Part i: Project Status and Baseline Participation

In this section, you will use the dropdown menu to s	elect the choice that fits your application:
☐ Re-timing at least 75% of previous project	
 Select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option if your project will include a select this option. 	ude at least 75% of a previously OCTA-funded project.
☐ Timing at least 75% of new eligible project	ang an email to <u>manicops@octa.net</u> .
 Select this option if your project will in projects must at least be on the Signal 	clude at least 75% of a new eligible project. Eligible Synchronization Network or Master Plan of Arterial ents per Page 8-19 of the latest CTFP Guidelines.
□ None	, -
• Select this option if none of the above a	pplies.
☐ Countywide Baseline Project Participation	
 Select "Yes" if all participating agenci application will be participating in the Co 	es and project signals, excluding Caltrans, on this puntywide Baseline Project.
 Select "No" if not all participating age Countywide Baseline Project. 	ncies or project signals will be participating in the
Part j: Contact Information	
Enter the project contact for every participating age	ncy. Each contact should include the agency, contact
name, position title, phone number, email, and mail	ing address. Information for the lead agency shall be
entered in the upper leftmost cell.	
j. Contact Information (Include name, title, agency, phon	e email and address)
[Insert Lead Agency Contact Name, Title]	, ornam, and address,
[Insert Agency]	
[Insert Phone]	
[Insert Email]	
[Insert Mailing Address]	

J-	Contact information (include name, title, agency, phone	, critain, and additional
	[Insert Lead Agency Contact Name, Title]	
	[Insert Agency]	
	[Insert Phone]	
	[Insert Email]	
	[Insert Mailing Address]	

Part k (Tab Section 1.k-l): List of Signalized Intersections

Enter the name of the main corridor and cross street under the appropriate columns. Make sure to number the entries and denote the owning agency with color. Do not differentiate Caltrans intersections by color. Label Caltrans intersections with an asterisk (*) (See Sample Supplemental Application). Caltrans intersections will be counted towards the agency based on physical location.

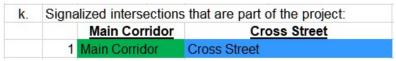


Figure 4. If it is a shared intersection, use both colors (one per cell).

Delete unused numbering and rows or add more as needed.

Part I (Tab Section 1.k-I): List of Offset Signals

If offset signals, signalized intersections on the Master Plan of Arterial Highways (MPAH) that are within 2,700 feet of the project corridor/grid/route, are going to be included in this project, enter the main street and cross street of each. Make sure to number the entries, continuing from **Part k**, and denoting the owning agency with the appropriate colors. Caltrans signals shall be in the color of the agency of its physical location and denoted with an asterisk (*).

Applicants are recommended to check this number with OCTA prior to submittal as changes will not be allowed after an application has been submitted.

Baseline participants are only required to list offset signals that will have improvements. A reminder that only applications with project signals on the Baseline are allowed to have offset signal improvements as part of the application.

Part m (Tab Section 1.m): Project Map Depicting the Project Limits

Please include a quality map that shows the limits of the project. **<u>DO NOT</u>** use satellite view as that is hard to read. A proper map should show all the project intersections, street names, and a legend to distinguish intersections by agency. Fit the map to one page, whether letter/tabloid/11"x17" and portrait/landscape.

Section 2: Regional Significance

In this section, please explain why this project is regionally significant. Any justification for a route or grid project would also be included here. Please keep this section to one page. If this is a grid, introduce the main corridor (indicate limits) and include the crossing arterials and their corresponding limits. If this is a route with more than two (2) corridors, provide a description of the route with the included OD vehicle data. Any additional document can be included in Appendix E.

Section 3: Acknowledgement of Required Tasks

In Part a, you will acknowledge on behalf of all participating agencies that, if funded, the lead agency will execute this project per the tasks and components as written in this section. If additional tasks or exceptions to the tasks are requested, please check the designated boxes and describe it in the spaces provided (areas shaded in green). Please use this space to explain how Caltrans signals will be dealt with

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in this project. If the applicants will opt out of Tasks 2 and 4, then this space should explain how Caltrans signals will be dealt with.

By checking this box, the following additional Pl task(s) and/or exceptions will be made: <!nsert Text>

Figure 5. Use this section to include exceptions to the PI tasks listed in this section.

For participants of the Countywide Baseline Project, agencies can use the provided checkbox to opt out of the data collection portion of Task 3 since data will be collected as part of the Baseline Project. However, it is important to note that a Before and After study is still required.

✓ Check this box to indicate all agencies on this application will opt out of the data collection portion of Task 3 due to participation in the Countywide Baseline Project. A Before/After study is still required. A memorandum shall be submitted to indicate completion of this task.

A similar opt-out checkbox is available for Task 4.

✓ Check this box to indicate all agencies on this application will opt out of the Signal Timing Optimization and Implementation task (Task 4) due to participation in the Countywide Baseline Project. The Final PI Report shall still include a section on timing optimization and implementation from the Baseline Project.

In **Part b**, you will acknowledge, on behalf of all participating agencies, compliance with environmental requirements and other permits as necessary.

In Part c, you will acknowledge, on behalf of all participating agencies, that this project will comply with the current CTFP Guidelines.

Section 4: Funding Needs / Costs for Proposed Project by Task

In this section, you will break down the costs per task by agency. Input fields are shaded green.

The only input required in **Part a [Summary of Project Cost]** is the **Match Commitment**, The rest of the table will automatically populate with the inputs in the individual agency tables below it.

In Part b [Summary of Cost by Agency]:

- Input Agency Name by selecting from the drop-down menu. Do not select Caltrans.
- Input number of signalized intersections that are owned and operated by the agency (exclude Caltrans intersections). If it is a shared intersection, please indicate the actual share to the nearest tenth. This number will be used to determine your share in match requirements.
- Input number of signalized intersections that are owned and operated by Caltrans within the Agency's jurisdiction.
- Input number of offset signals (signals on MPAH that are within 2,700' of corridor) within the Agency's jurisdiction that are included in this project for signal timing purposes.
- Input cost per intersection per task. Task 3 will not have a cost per intersection. Instead, the total cost will be pulled from Appendix B.II.
- Input the pledged cash and in-kind match.
- Repeat for every participating agency (excluding Caltrans). Caltrans signals should be included
 with the agency, determined by jurisdictional boundaries/oversight/match sponsor.

Note: All fields in Task 3 will automatically populate based on information from Appendix B.

There is a mathematical check on the right to make sure the Measure M2 funding request does not exceed the maximum cap (\$250,000 per mile or \$75,000 per signal), that there is a minimum of 20% match per agency, and the construction management requested does not exceed 20% of M2 allocation requested. Please verify all formulas, as necessary, to ensure that the calculations are accurate.

It is not required that all agencies use up the available budget per signal/mile caps, but each agency is required to contribute at least a 20% match towards their expenses. The overall project match must be at least 20%. Agencies with Caltrans signals shall also provide a match for timing, O&M, and any improvements proposed.

Part c [Funding Needs / Costs for Proposed Project by Task]: This section will be automatically populated based on information entered in *Appendix B*. Delete or hide any unused rows to prevent calculation errors.

Section 5: Detailed Local Match Commitment

Please refer to Section 4 and Table II sheets when completing the tables in this section.

- Part 1 will automatically be populated. Fill in the required information shaded in green in Part
 2.
- In Part 2A, the Agency will auto-populate based on **Section 1**. The applicant only needs to fill in the funding source for the cash match.
- If agencies intend to use specific improvements towards their required match, the information shall be entered in **Part 2Bi**. The specific improvement per agency must be entered to complete the table. Improvements proposed for in-kind match shall be an eligible improvement per the CTFP Guidelines. If no improvements will be contributed, then leave the table blank and hide unused rows for condensed spacing.
- In Part 2Bii, if in-kind match is provided, the applicant shall enter staff or consultant hours that will be contributed towards the project. The agency, staff position, type of service to project, number of hours, and fully burdened hourly rate shall be entered. Each agency will be responsible for keeping detailed records of hours worked and description of work. An accounting record of personnel, hours at fully burdened rate is expected to be included with the in-kind report submittals. Records are subject to auditing. Refer to the Sample Supplemental Application as needed.

<u>Note</u>: Additional rows shall be added as necessary to complete this section. It is also recommended that the applicant confirm the values shown to ensure consistency throughout the application. <u>Delete or hide</u> blank rows, as necessary, to condense the information for printing.

Section 6: Project Schedule by Task

Part a will be automatically populated based on the information in Part b. Fill in your projected dates in

Part b. Dates shall be no sooner than fiscal year July 2026 – June 2027.

Appendix A: Calculations and Estimated Points

This appendix provides the Estimated Points for your application.

Required input fields are shaded in Green. Gray fields are automatically populated based on information entered in other sections. Description of each category is as follows:

1. Transportation Significance:

- a. Cell B4 will be auto-filled based on your participation in the Countywide Baseline Project as answered in Section 1.i.
 - A "Yes" response will automatically award your application with full points for offset signals.
 - A "No" response will mean the applicants are not participating in the Countywide Baseline Project and thus further calculations are needed to determine the application's score for offset signal inclusion.
- b. **Total number of offset signals (Cell H6)** refers to all possible offset signalized intersections whether or not it will be part of the optimized timing task of this application. Offset signals are defined as the signalized intersections on the MPAH that are within 2,700 feet from either direction of the project corridor. Please confirm the number with TrafficOps@octa.net as you will not be able to change this number once the application has been submitted.
- c. Vehicle Miles Traveled will be populated based on information provided in Appendix C.
- Economic Effectiveness will be automatically populated based on information from Section 4
 and Appendix C. This category takes the Total Project as entered in Section 4 and divides it by
 the VMT calculated in Appendix C.
- 3. **Project Characteristics** will be automatically populated based on the information provided in *Appendix B.3*. *See Appendix B.3* for more information on how this is calculated.

4. Project Scale

- a. **Number of signals** along the entire length of corridor(s) (within Orange County) whether or not they are part of this project.
 - For a grid network, it would be the total number of signals on the main corridor.
 - For a route, it would be the sum of all corridors.
- 5. **Number of Jurisdictions** refers to the number of participants on this project. This number is automatically populated based on information entered on the Title Page.
 - a. Caltrans may only be counted as a participant if all agencies with Caltrans signalized intersections pledge to sign a cooperative agreement with Caltrans. This shall be addressed in the cover letter and letters of support from each agency.

6. Current Project Status:

- a. **Retiming 75% of previous project**: This will be automatically populated based on information inputted in **Section 1.a-j**.
- b. **Timing of 75% of new eligible project**: This will be automatically populated based on information inputted in **Section 1.a-j**.
- 7. Funding Match will be automatically populated based on information in Section 4.a-b.

The rest of the fields in **Gray** will automatically populate. Please make sure the values are correct based on inputs from all previous sections. Contact <u>TrafficOps@octa.net</u> to report errors.

Appendix B: Agency Improvement Calculations

Appendix B.1 - Table I: Agency Improvement Preferences

The purpose of this table is to capture the equipment preferences of each participating agency and the respective cost per unit. The Item Descriptions are grouped per the Score Table in the CTFP Guidelines. Do not adjust the improvements as everything is linked. You will need to group your improvements to fit into these existing Item Descriptions. Use the Additional Notes section to expand/explain what is included in the lump sum cost. If you need assistance, email TrafficOps@octa.net.

Important!

First step is to determine if this application will be a timing-only project, meaning no improvements. Select the appropriate box to the right of the table header (as shown below).



Figure 6. Important First Step in Appendix B.1

This selection will impact what needs to be filled out in the table so make sure to do this step first.

 As with the other sections, the input fields are shaded green. Gray fields are automatically populated.



Figure 7. Only input data in the green shaded cells.

- Select the agency names from the dropdown menu starting with Cell D5.
- Item Description
 - The Item Descriptions <u>SHALL NOT</u> be changed. You will need to group your improvements to fit within these existing Item Descriptions. For questions, clarifications, or guidance, please email <u>TrafficOps@octa.net</u>.
 - All communication improvements shall be entered as a lump sum.
 - **EXAMPLE:** There are 15 intersections that will receive communications upgrades. Upgrades are breakdown down as follows:
 - \$ 94,000 x 1 Conduit repair
 - \$ 2,000 x 12 Patch panel
 - \$ 3,000 x 15 Ethernet switch
 - \$ 3,700 x 12 #6E pb + splice enclosure
 - \$ 20 x 600 Remove copper + add pull tape
 - \$1,500 x 30 #6 pb
 - \$ 90 x 1,100 3" Conduit + 120-SMFO
 - \$ 363,405 [Total cost of **Fiber Optic underground** improvements]
 - \$ 363,405 / 15 intersections = **\$24,227** [Cost per intersection]
 - \$24,227 will be entered as the unit cost into **Appendix B.1 Table I** under Item Description #2 for Fiber Optic underground as shown below:

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TABLE I: AGE	NC	/ IMPROVEMENT PREFERENCES	Is this a timing-€	only project (no in	nprovements)?
		PROSERVATOR AREAS		UNIT PRICE (MAT	TERIAL + LABOR
CATEGORIES	ID	ITEM DESCRIPTION	Dana Point	Laguna Niguel	Mission Viejo
Comm	1	Above ground (e.g. wireless, cellular, etc.)		\$1,800	
	2	Fiber Optic underground	\$3,000	\$24,227	\$23,143
	3	All other (e.g. copper, aerial fiber, GPS, etc.)	\$1,100		

- Each of the 15 intersections receiving upgrades will be marked with a Quantity of "1" under Fiber Optic Underground in **Appendix B2 Table II**.
- Use Vendor/Brand & Additional Notes to elaborate on items desired, such as:
 - Brand/name of ATMS
 - Brand/model of cameras
 - Items that will be included in communications
 - Conduit thickness
 - Fiber/conduit segments (i.e. from Street A to Street B)
 - Fiber strand count
 - Fiber strand count for termination
 - Length of drop cable
 - Number of SFPs and speed
 - Number and type of pullboxes
 - Type of Controller (with or without touchscreen & controller firmware)
 - Type of cabinet (including or excluding new/modified foundation)
- Under the Unit Price (Material + Labor) columns, enter the unit price per improvement.
 - Round numbers (length and cost) to the <u>nearest thousand</u> to avoid rounding errors.
 - This shall include all material, labor, flat-rate turn-on support, tax, and shipping costs for a fully operational improvement.
 - Common things that applicants forget to include:
 - Fiber termination, including number of strands that need to be terminated
 - Fiber distribution units and splice enclosures
 - SFP units (include quantity and speed)
 - Slack for fiber optic cable length
 - Conduit repair for fiber installation in existing conduit
 - New conduit due to lack of existing conduit capacity
 - Incorrect length of new conduit
 - Number of pullboxes required
 - Unit costs shall be estimated and derived from recent procurements, when possible, and rounded to the *nearest thousand*.
- Under the *Applicable Design Cost Per Unit* column, enter any associated design cost requested as part of that improvement. *Design costs are typically 10-15% of the improvement costs and it is assumed that some items will not require any design.*
- Note: In Task 2 Data Collection, the unit cost from the Section 4 tab includes field work for signal timing and infrastructure improvement efforts.

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- Enter the brand/model/specific preferences under the **Vendor/Brand & Additional Notes** columns, if known. Repeat for every applicable improvement.
- Insert more columns as necessary to include all participating agencies, but make sure the formulas are consistent with the rest of the table. If you need assistance, email TrafficOps@octa.net.
- Delete or hide columns if they are not needed to condense the table for printing.
- Delete or hide rows if they are not needed to condense the table for printing.
- Provide a breakdown for TMC improvements in Appendix E.

Appendix B.2 - Table II: Description of Work by Intersection

This table will include all the improvements and associated costs proposed on this project per intersection. Input fields are shaded green (light and dark green mean the same here). Gray fields mean the cell will be automatically populated.

- 1. In Column A, a number is assigned to every intersection based on Section 1k. For convenience, Column C is automatically populated for you based on Section 1k. However, if this format does not work because not every intersection has improvements, you can choose to renumber the intersections in Column A but follow the numbering from Section 1k. As shown in the Sample Supplemental Application, no numbers are assigned to improvements at the Traffic Management Center (TMC). Enter the TMC improvements at the end of the table if you choose to keep the format as provided.
- 2. In Column B, use the drop-down menu to select the implementing agency. Unlike Section 1, you will be selecting the agency that will be *providing the match* for the associated improvement costs. Use red font to indicate the agency responsible for the match if different from the agency owning the intersection. For example, Caltrans intersections may not be labeled as Caltrans if a local agency is funding the improvements, as shown below.

LOCATION	IMPLEMEN	PROJECT CROSS STREETS
36	Orange	Sycamore Avenue/University Drive
37	Orange	Palm Avenue
38	Orange	La Veta Avenue
39	Santa Ana	SR-22 Westbound Ramp*
40	Santa Ana	SR-22 Eastbound Ramp*
41	Santa Ana	Fairhaven Avenue

Figure 8. Show agency responsible for match by using red font.

- 3. **Column C** lists all project cross streets. For convenience, it is set up to reference **Section 1k**, but if you modify the numbering, you will need to adjust the contents of **Column C** to match the new numbering. In the Sample Supplemental Application, the intersection list is referenced to **Section 1k** to avoid having to retype the street names.
- 4. **Columns D to AK** show the **Item Descriptions** as listed in the Score Table in the CTFP Guidelines. These are automatically populated from **Appendix B.1 Table I**. Do not change them.
- 5. For every intersection, enter the quantity for each improvement that is proposed in the appropriate spaces as shown in the example. If a value is added to an improvement that does not currently have a cost associated in **Appendix B.1 Table I**, the cell will change to yellow to indicate that information is missing in **Appendix B.1 Table I**. See legend at the bottom of the table for information.
- 6. The spreadsheet is set up to automatically sum the total cost of improvements based on the quantity entered in **Appendix B.2 Table II** and the unit price information entered in **Appendix B.1 Table I**. It is the responsibility of the applicant to ensure the calculations are correct.

- o In **Cell AN6**, enter the percentage of the construction that should be added for construction management and inspection (not to exceed 20%).
- In Cell AO6, enter the percentage of contingency that would be added to the design, construction, and construction management/inspection total (not to exceed 10%).
- o Column AP will auto-populate based on information provided in Column AK and Appendix B.1.
- Total Agency Match is defaulted to 20% (minimum match required). Only change this cell if the application will provide an overmatch (cash only).
- 7. In the **Notes** column, enter any additional information, such as conduit/fiber segments, modifications required at any intersection, or any extra information that will help with procurement, pricing, and understanding the improvement. Since communication improvements are lump sum, please enter information here to explain what will be included. See the Sample Supplemental Application for examples.
- 8. If you have less locations than listed, hide the extra rows for a cleaner application.
- 9. For Countywide Baseline Project participants, improvements are allowed for offset signals using the existing budget. Offset signals will start to populate in Row 51, but you may make adjustments manually as needed to suit your needs.

Important Note: The cells in Table I and II are linked, thus adding rows may disrupt the formula. If you need assistance, please email TrafficOps@octa.net for assistance.

Appendix B.3 – Table III: Project Average Improvement Scores

In this table, you will use the drop-down menus to select the appropriate score per the **Score Table** (Figure 9). The table is conditionally formatted so a cell that is highlighted yellow means a score needs to be selected. If the cell is highlighted red, it means there should be no score there because there is no relative improvement in **Tables I and II**.

If this application is a timing-only project, as selected in **Appendix B.1**, then the table with improvements will be blacked out. You will be left with the columns regarding timing-only (no improvements). If this is not a timing only project, then the timing columns will be blacked out. **DO NOT** input anything in the blacked-out cells.

Definitions:

- Online: Connected to a central system and is active.
- Offline: Not connected to a central system and/or is inactive.
- **No time source**: No reliable time source at the signalized intersection.
- **Time source**: There is a reliable time source at the signalized intersection, such as GPS, master controller, direct connection to central system, etc.
- None/5+ Years: None means the improvement does not exist or has never been installed at the
 intersection or it has been over 5 years from the application deadline since the improvement was
 installed.
- Within 5 Years: This means the improvement was installed within 5 years of the application deadline.
- None/10+ Years: None means the improvement does not exist or has never been installed at the
 intersection or it has been over 10 years from the application deadline since the improvement
 was installed.
- Within 10 Years: This means the improvement was installed within 10 years of the application deadline.
- Participation: Participation means Caltrans will be an active participant on this project. This
 requires a cooperative agreement between all applicable participating agencies and Caltrans. The
 agreement can be a collective cooperative agreement for the project or between Caltrans and
 each individual agency.
- **No Participation**: This means agencies will not sign a cooperative agreement with Caltrans and Caltrans will not be an active participant.

Example:

You are applying for a CCTV camera at an intersection that has never had CCTV, you will use the drop-down menu to select 30. If you have installed a CCTV camera within the last 5 years, then a score of 10 would be selected in the drop-down menu.

Eligible Improvements	Score Base	d on Status		
Signal Communication	No Time Source Time Source			
Above ground (e.g. wireless, cellular, etc.)	50	30		
Fiber Optic underground	25	15		
All other (e.g. copper, aerial fiber, GPS, etc.)	5	1		
Field Elements	None/5+ Years	Within 5 years		
ATC signal controller	50	10		
Signal cabinet on existing foundation	30	10		
Signal cabinet on new foundation	15	5		
BBS/USP (attached)	20	10		
BBS/UPS on existing foundation	10	5		
BBS/UPS on new foundation	5	1		
CCTV	30	10		
Vehicle detection (ATSPM inputs + counts)	None/5+ Years Within 5 years			
Vehicle detection (ATSPM inputs)	40	20		
Vehicle detection + bicycle detection	30	15		
Vehicle detection	30	15		
Bicycle detection	30	15		
Pedestrian detection (audible)	50	30		
Pedestrian detection	30	15		
Active transportation/pedestrian safety	50	30		
Transit Signal Priority	30	10		
EVP (hybrid or GPS)	40	10		
EVP (infrared)	30	10		
Speed feedback signs (existing post)	40	10		
Speed feedback signs (new post)	20	10		
Corridor Performance Monitoring	40	10		
Minor Signal Operational Improvements	None/5+ Years	Within 5 years		
Channelization	40	20		
Signal phasing improvement	50	25		
TMC/TOC	None/10+ Years	Within 10 years		
Central System (server, licenses, workstations)	40	20		
Display (video wall, VMS, etc.)	30	10		
UPS	20	5		
Caltrans	Participation	No Participation		
Cooperative Agreement	50	25		

Figure 9. Score Table for Project Characteristics per CTFP Guidelines

Appendix C: Vehicle Miles Traveled (VMT)

Input count data in Appendix C to calculate the vehicle miles traveled (VMT) for this application. Input the segments (Column C), average daily traffic (ADT, Column D), and the segment length (Column E). Add or delete rows as necessary.

VMT should be calculated by the smallest segmentation on which the city typically collects ADT data. ADT must be based upon actual count information taken within 36 months preceding the application date and include 24-hour, midweek, bi-directional counts for each segment. All supporting data shall be inserted after this summary table and organized in order in which they appear for the calculation of the VMT. Data from the OCTA Traffic Flow Map shall not be used. At the bottom of the table, indicate the source of the count data.

Failure to provide the appropriate ADT data will be treated as a non-responsive application.

Appendix D: Agency Resolutions and Letters of Support

Include the resolution for every participating agency in this appendix. If a resolution is not ready at the time of submission, a draft resolution with estimated dates is acceptable. A sample resolution can be found in the CTFP Guidelines. A Microsoft Word copy may be requested by emailing TrafficOps@octa.net.

Include the letters of support for all participating agencies in this appendix. Additional information that will assist in the evaluation and understanding of the project should be included in **Appendix E**. Please **DO NOT** include the CTFP Guidelines or the MPAH maps.

Appendix E: Additional Information

Include additional information that will assist in the evaluation and understanding of the project in this appendix, such as a breakdown of TMC improvements, City-wide ITS Plan, Origin-Destination vehicle counts, or relevant traffic studies. Please **DO NOT** include the CTFP Guidelines or the MPAH maps. Cabinet photos, as-built drawings, equipment specifications, and cabinet drawings should be included in this appendix.

Printing the Document

The intent is for all documents to look alike so it streamlines the application reviewing process and saves paper. With that in mind, navigate into the **Print** menu and select **Print Entire Workbook**. Then, use **Print Preview** to scroll through all the pages to ensure the contents are not inappropriately spilling onto the next page and that you have the correct page numbers.

- Make sure to check the page numbers in the Checklist (aka Table of Contents) as well.
- Make sure to update the **Headers** with the project name.
- Delete or hide columns/rows if they are not needed to condense the sheets for printing.
- Check that all formulas are populating correctly.
- Appendix B may be printed on ledger and/or 11"x17" for ease of reviewing.

Hard copies are no longer required, but the above instructions should be referenced for converting your application into a Portable Document Format (PDF) for submission.

OCFundtracker

OCFundtracker Training Manual: https://www.octa.net/trainingmanual

Additional Help

If you have additional questions or need assistance, please email Cynthia Morales (cmorales@octa.net) or the Traffic Operations Team (TrafficOps@octa.net).

FY 2026 Call for Projects

Regional Traffic Signal Synchronization Program

Project P

Supplemental Application

Garden Grove Boulevard / West Memory Lane

11/20/2025

Date of Submission

Project Overview

Length of Corridor (mi): 8.5 Number of signals: 34

Total Project Cost: \$2,862,662.00 M2 funds requested: \$2,290,129.60

Total Match: \$572,532.40
Cash Match: \$543,432.40
In-kind Match: \$29,100.00

Participating Agencies: Garden Grove

Orange Santa Ana Westminster

Applicant Agency: City of Garden Grove

Contact Name: Juan Navarro, City Traffic Engineer

Contact Number: 714-741-5186

Contact Email: juann@ggcity.org

Project P Regional Traffic Signal Synchronization Program Table of Contents

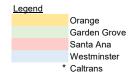
	Project P Supplemental Application Checklist	Page
RTS	SP Online Application – submitted through OCFundTracker	
a.	Transportation Significance	
b.	Economic Effectiveness	
c.	Project Characteristics	Online
d.	Project Scale	Offillite
e.	Number of Jurisdictions	
f.	Current Project Status	
g.	Funding Match	
h.	Cabinet photos, equipment specifications, as-built drawings, cabinet drawings, etc.	Online only
Sect	tion 1: Key Technical Information	
a.	Name of Project Corridor/Grid/Route	1
b.	Project Limits	1
C.	Project Length	1
d.	Number of Signalized Intersections Along Corridor	1
e.	Participating Agencies/Traffic Forum Members	1
f.	Lead Agency	1
g.	Designation of the corridor to synchronize	1
h.	Project Start and End Date	1
i.	Project Status and Baseline Participation	1
j.	Contact Information	1
k.	Signalized intersections that are part of the project	2
I.	Offset signalized intersections that are part of the project	2
m.	Project Map Depicting the Project Limits	3
Sect	tion 2: Regional Significance	4
	tion 3: Acknowledgement of Required Tasks	5
Sect	tion 4: Funding Needs/Costs for Proposed Project by Task	
a.	Summary of Project Cost	8
b.	Summary of Cost by Agency	9
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В.	Agency Improvement Calculations	16
C.	Vehicle Miles Traveled (VMT)	23
D.	Agency Resolutions and Letters of Support	25
E.	Additional Information (Optional)	26

SECTION 1: KEY TECHNICAL INFORMATION

,		y Lane				
Project Limits:						
from	Valley View Street		to	Bristol St	reet	
Project Length (min	les):					
			(include a	Il Caltrans intersections): _number of offset signals in	cluded in this project	
Participating agend	cies / Traffic Forum Men	nbers (<i>inclu</i>	ding appli	icant agency):	☐ San Juan Capistrano	
☐ Aliso Viejo	☐ Cypress	La Habi	а	Los Alamitos	✓ Santa Ana	
☐ Anaheim	☐ Dana Point	La Palm	a	☐ Mission Viejo	☐ Seal Beach	
Brea	☐ Fountain Valley	_		☐ Newport Beach	☐ Stanton	
Buena Park	☐ Fullerton			-	☐ Tustin	
	_	_	_		☐ Villa Park	
					✓ Westminster	
☐ County of Orange	☐ Irvine	∐ Lake Fo	rest	☐ San Clemente	☐ Yorba Linda	
Lead Agency	✓ City of Garden Grove	_				
Is this project on either	the Signal Synchronization Ne	etwork or Mas	ter Plan of A	rterial Highways?	1	
● Yes ○ No						
Project Start Date:	September 2,	2026	Proje	ect End Date: J	uly 31, 2029	
Project Status and Basel	line Participation				1	
Re-timing at least	75% of previous project					
			are partic	ipating in the Countywide	Baseline Proiect	
	noam agement ama proj			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	<u> </u>	gency, phor		<u> </u>		
	•			•		
City of Garden Gro	ove		City of Or	range		
714-741-5186			714-744-	5561		
juann@ggcity.org ghayes@cityoforange.org						
11222 Acacia Parkway, Garden Grove, CA 92840 300 E. Chapman Avenue, Orange, CA 92866						
Cesar Rodriguez, Senior Civil Engineer Peter Ngo, Branch Chief, Traffic Signals/Ramp Metering						
City of Santa Ana Caltrans						
714-647-5626 949-285-4262						
		01			3	
	Garden Grove Bo Project Limits: from Project Length (ming 8.5 Number of signaliz 34 number of signalize 34 n	Project Limits: from Valley View Street Project Length (miles): 8.5 Number of signalized intersections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project corrections along to 34 number of signals on project contact along the signal spoint along the signal spoin	Project Limits: from Valley View Street Project Length (miles): 8.5 Number of signalized intersections along the corridor (a) 34	Project Limits: from Valley View Street to Project Length (miles): 8.5 Number of signalized intersections along the corridor (include a 34 number of signals on project corridor(s) Participating agencies / Traffic Forum Members (including appliantiation) Aliso Viejo Cypress La Habra La Palma Brea Fountain Valley Laguna Beach Laguna Hills Caltrans Garden Grove Laguna Niguel Laguna Woods County of Orange Irvine Lake Forest Lead Agency City of Garden Grove Laguna Niguel Project Start Date: September 2, 2026 Project Status and Baseline Participation Re-timing at least 75% of previous project Yes, all applicant agencies and project signals are partic Contact Information (Include name, title, agency, phone, email, Juan Navarro, City Traffic Engineer Gabrielle City of Garden Grove City of Orate Gabrielle City of Garden Grove Cit	Project Limits: from Valley View Street to Bristol St. Project Length (miles): 8.5 Number of signalized intersections along the corridor (include all Caltrans intersections): number of signalized intersections along the corridor (include all Caltrans intersections): 34 number of signals on project corridor(s) number of offset signals in Participating agencies / Traffic Forum Members (including applicant agency): Aliso Viejo Cypress La Habra Los Alamitos Anaheim Dana Point La Palma Mission Viejo Brea Fountain Valley Laguna Beach Newport Beach Buena Park Fullerton Laguna Hills Orange Caltrans Garden Grove Laguna Niguel Placentia Costa Mesa Huntington Beach Lake Forest San Clemente Lead Agency City of Garden Grove Is this project on either the Signal Synchronization Network or Master Plan of Arterial Highways? ② Yes No Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 3, 2026 Project End Date: Jerving Project Start Date: September 4, 2026 Project End Date: Jerving Project Start Date: September 5, 2026 Project End Date: Jerving Project Start Date: September 6, 2026 Project End Date: Jerving Project Start Date: September 7, 2026 Project End Date: Jerving Project Start Date: September 8, 2026 Project End Date: Jerving Project Start Date: September 9, 2026 Project End Date: Jerving Project Start Date: September 9, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date: Jerving Project Start Date: September 2, 2026 Project End Date:	

k. Signalized intersections that are part of the project:

g	Main Corridor	Cross Street
1	Garden Grove Boulevard	Valley View St*
2	Garden Grove Boulevard	I-405/SR-22 Interchange*
3	Garden Grove Boulevard	Edwards Street
4	Garden Grove Boulevard	SR-22 EB Off Ramp*
5	Garden Grove Boulevard	Knott Street/Goldenwest Street*
6	Garden Grove Boulevard	SR-22 WB Off Ramp/Eagle Drive*
7	Garden Grove Boulevard	Western Avenue
8	Garden Grove Boulevard	Hoover Street
9	Garden Grove Boulevard	Village Center Drive
10	Garden Grove Boulevard	Beach Bvd (SR-39)*
11	Garden Grove Boulevard	Dale Street
12	Garden Grove Boulevard	Newland Street
13	Garden Grove Boulevard	Magnolia Street
14	Garden Grove Boulevard	Casa Linda Lane
15	Garden Grove Boulevard	Gilbert Street
16	Garden Grove Boulevard	Galway Street
17	Garden Grove Boulevard	Brookhurst Way/Kerry Street
18	Garden Grove Boulevard	Brookhurst Street
19	Garden Grove Boulevard	Nutwood Street
20	Garden Grove Boulevard	Nelson Street/Century Boulevard
21	Garden Grove Boulevard	Main Street
22	Garden Grove Boulevard	Euclid Street
23	Garden Grove Boulevard	Ninth Street/Nina Place
24	Garden Grove Boulevard	Newhope Street
25	Garden Grove Boulevard	West Street
26	Garden Grove Boulevard	Harbor Boulevard
27	Garden Grove Boulevard	Palm Street
28	Garden Grove Boulevard	Pedestrian Crossing (Garden Grove Hospital)
29	Garden Grove Boulevard	Partridge Street
30	Garden Grove Boulevard	Haster St/SR-22 WB On Ramp*
31	Garden Grove Boulevard	Fairview St/SR-22 EB On Ramp*
32	Garden Grove Boulevard	Lewis Street
33	Garden Grove Blvd/Memory Lane	•
34	Memory Lane	Bristol Street

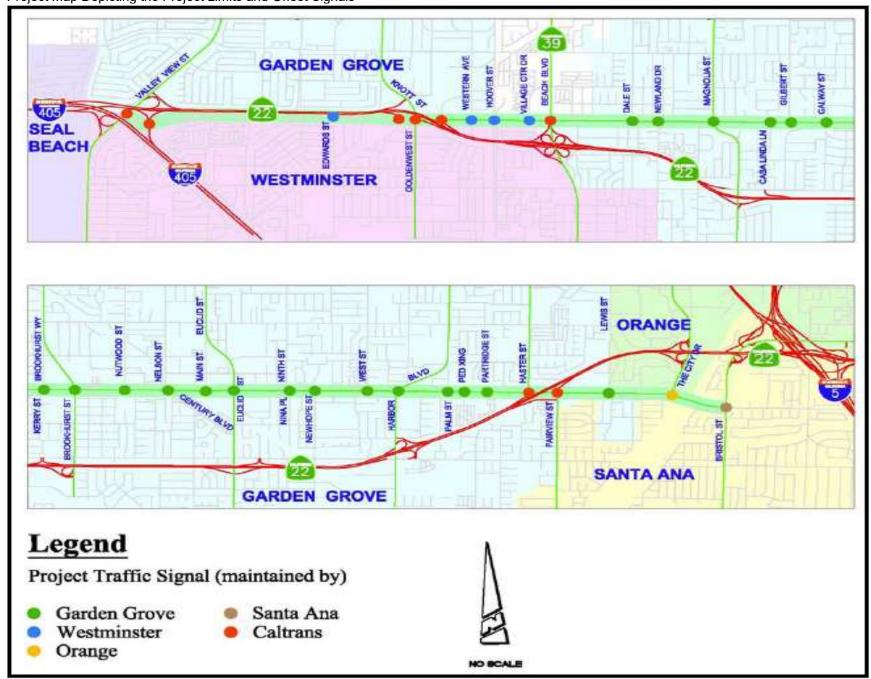


Offset signalized intersections that are part of the project. Baseline participants only need to list signals that are requesting improvements:

 Main Street
 Cross Street

35

m. Project Map Depicting the Project Limits and Offset Signals



Explain why this project is regionally significant: <insert text=""> Use this section to also justify why a grid/route is requested, if applicable.</insert>				
<insert text=""> Use this section to also justify why a grid/route is requested, if applicable.</insert>				

a. **PROJECT TASKS**

By checking this box, the Applicant Agency, on behalf of all the participating agencies, agree to the following tasks:

Primary Implementation (PI) Phase, lasting approximately one year shall include the following:

Task 1: Project Management - PI Phase

This task is ongoing throughout the duration of the PI Phase of the project. It includes day-to-day project management, such as meetings, progress reports, tracking of schedules, tracking of cost by agency, invoicing, and overall administration of the PROJECT.

The following list is a minimum of what is required of this task:

- A running record of project cost broken down by Participating Agency shall be part of this task. This information will be used by the Lead Agency to bill Participating Agencies for their respective project match.
- A running record of all scope changes and/or any deviations from the final approved application. This information will be used by the Lead Agency to request for Scope Changes at the Semi-Annual Review (SAR).

Task 2: Data Collection and Field Review

This task shall include collecting seven-day, 24-hour machine counts, including vehicle and bike classifications, along each 1-mile segment of the corridor(s). The project shall also produce weekday and weekend peak period intersection turning movement (ITM) counts at every signalized intersection, including pedestrian and bicycle counts. ITM counts shall be conducted for two hours of each weekday peak period (AM, mid-day, and PM) and a single four-hour Saturday mid-day peak period. All counts shall be summarized in Microsoft Excel format. All data shall adhere to the CTFP Guidelines for data compatibility.

Data collection also includes field review of before and after conditions. The floating car method shall be utilized with software and GPS for the 'Before' Study to fine-tune the corridor operation and verify integrity of system intersection clocks. Synchronized Video shall be used to compare actual conditions to anticipated conditions dictated by the time-space diagram so that any anomalies may be corrected prior to the 'After' studies task.

Field review conducted as part of this task will document the existing conditions for all signal timing, infrastructure, and system improvements on the project. This includes pre-construction pictures for comparison during the post-construction walkthrough, should there be any questions or discrepancies noted by any parties. Data Collection and Field Review Memos shall be provided to all participating agencies.

☑ Check this box to indicate all agencies on this application will opt out of the data collection portion of Task 3 due to participation in the Countywide Baseline Project. A Before/After study is still required. A memorandum shall be submitted to indicate completion of this task.

Task 3: System Design and Construction

The Lead Agency will hire a consultant(s), licensed contractor(s), and/or use city staff, or extension of staff, to design, procure, install, construct, and implement all desired components of the project as described in this application in accordance with the CTFP Guidelines.

All work and equipment supplied for the project shall comply and be done in accordance with the latest standards and provisions of each Participating Agency or latest approved California Department of Transportation (Caltrans) Standard Plans and Standard Specifications.

As-built plans shall be provided to match the improvements. This task is not complete until all

SECTION 3: ACKNOWLEDGEMENT OF REQUIRED TASKS

participating agencies approve the improvements implemented in their jurisdiction.

Task 4: Signal Timing Optimization and Implementation

Synchronization will be inter-jurisdictional in nature. All existing traffic patterns, flows, and conditions will be taken into account. At a minimum, synchronized timing plans will be developed for a weekday AM, Mid-day, PM, and a Weekend peak period. Special generators such as schools and businesses along with cross street traffic will be considered as part of the project. Timing plans that will be developed will assist traffic in getting to its destination without regard to physical or jurisdictional boundaries.

The following list is a minimum of what is required of this task:

- A review of the basic timing parameters
- Concept of Operations documenting the recommended coordination strategies (e.g. segments, cycle lengths, etc.) based on existing data collection and simulations
- Existing and Optimized simulation networks in Synchro (version 10) that is also shared with OCTA using the OCTA designated ID numbers
 - Implementation and fine-tuning of proposed timing plans

This task will not be complete until all participating agencies approve the new timing plans

☑ Check this box to indicate all agencies on this application (excluding Caltrans) will opt out of the Signal Timing Optimization and Implementation task (Task 4) due to participation in the Countywide Baseline Project. The Final PI Report shall still include a section on timing optimization and implementation from the Baseline Project. Task 4 for Caltrans signals is the responsibility of the applicant.

Task 5: Final PI Report

A Final PI Report, with an executive summary, shall provide complete documentation of the project, including, but not limited to:

- · Project scope, objectives, locations, findings, and recommendations
- Data collected: counts, travel time studies, and project benefits achieved in terms of fuel savings, travel time, and other measurable parameters
- For each intersection: lane configurations, signal phasing, turning movement data, and cycle lengths for existing and proposed timings for all peak periods
 - All work performed for system construction and signal timing optimization
 - Implementation schedule and improvements accomplished, including dates
- Procedures for continuing maintenance, surveillance, and evaluation of the coordinated signal system

The report shall document all planned and programmed improvements on the study corridor as well as recommendations based on PI tasks for further infrastructure improvements that would likely improve the corridor signal coordination project results. The report shall be completed in accordance with the current CTFP Guidelines.

Finally, the report shall provide recommendations with cost and benefit estimates for future improvements to traffic signal infrastructure (signal controllers, vehicle detection, communications, etc.), intersection capacity (appropriate signal phasing, lane geometrics, and alleviation of physical bottlenecks that curtail arterial capacity), and traffic management strategies. These proposed improvements should be useful in determining future enhancements to the corridor.

A Project Summary Sheet, one sheet front and back, that describes the project and improvements gained shall be provided to OCTA. This sheet will be used by OCTA and Participating Agencies to present to the Board and elected officials.

By checking this box, the following additional PI task(s) and/or exceptions will be made:

This application includes a budget for data collection, signal timing optimization and implementation for all Caltrans signals. The awarded consultant will work with the Baseline consultant to coordinate all signal timing efforts.

ONGOING OPERATIONS AND MAINTENANCE (O&M) PHASE, lasting approximately two (2) years, shall include the following:

Task 6: Project Management - O&M Phase

This task includes day-to-day project management, such as meetings, tracking of schedules, invoicing, and overall administration of the project. This task shall continue in full force as specified in the Primary Implementation Phase.

Task 7: Continuing Support

During this 24-month period, the signal timing along the corridor/route/grid shall be observed and fine-tuned. This task shall also include the monitoring, maintaining, and repair of detection and communication implemented as part of this project. Monthly drives shall be conducted along the length of the project during all designated corridor synchronization timing plan hours of operation in order to verify that the synchronization timing is working as designed and complete any necessary adjustments. This is followed by a monthly memorandum summarizing the status and trends of the corridor based on the runs conducted. Trip logs for the month shall be provided to the Participating Agencies. The memorandum shall include all additional tasks requested and completed during that month. Performance metrics comparisons from ATSPM, where available, shall also be included in ...

Task 8: Final O&M Report

At the end of the O&M Phase, a Final O&M Report documenting the Ongoing Operations and Maintenance efforts and procedures for continuing maintenance shall be prepared. At the minimum, the memorandum shall include when travel runs were conducted and issues and solutions throughout the phase. The memorandum shall document all planned and programmed improvements on the study corridor as well as recommendations for further infrastructure improvements that would likely improve the corridor signal coordination project results.

☑ By checking this box, the following additional O&M task(s) and/or exceptions will be made:

This application includes a budget to cover Caltrans signals for O&M tasks as described above.

b. **ENVIRONMENTAL CLEARANCE AND OTHER PERMITS**

By checking this box, the Applicant Agency, on behalf of all the participating agencies, agree to obtain environmental clearance and other permits (if needed) for this project

c. ACKNOWLEDGMENT OF MEETING CTFP GUIDELINES

By checking this box, the Applicant Agency, on behalf of all the participating agencies, certify that all current CTFP guidelines were met for this project.

a. Summary of Project Cost

Project Tasks	Total Cost
Task 1: Project Management - PI Phase	\$ 68,000.00
Task 2: Data Collection	\$ 170,000.00
Task 3: System Design and Construction	\$ 2,353,462.00
Task 4: Signal Timing Optimization and Implementation	\$ 40,000.00
Task 5: Project Report	\$ 51,000.00
Task 6: Project Management - O&M Phase	\$ 34,000.00
Task 7: Continuing Support	\$ 119,000.00
Task 8: Final Technical Memorandum	\$ 27,200.00
Total Project Cost:	\$ 2,862,662.00

Match Commitment: 20% (minimum 20%)

Total Project Cost (Pl and O&M for a total of 3 years):

 Total M2 Request:
 \$ 2,290,129.60

 Total Agency Match:
 \$ 572,532.40

 Total Project Cost:
 \$ 2,862,662.00

 Total M2 Request for PI Phase:
 \$ 2,145,969.60

 Total Agency Match for PI Phase:
 \$ 536,492.40

 Total PI Cost:
 \$ 2,682,462.00

 Total M2 Request for O&M Phase:
 \$ 144,160.00

 Total Agency Match for O&M Phase:
 \$ 36,040.00

 Total O&M Cost:
 \$ 180,200.00

47,700.00

SECTION 4: FUNDING NEEDS / COSTS FOR PROPOSED PROJECT BY TASK

b. Summary of Cost by Agency

O&M \$

Garden Grove)	Agency	Caltrans	Offset	Total			
Numb	per of Signals:	20	3			23		
Project Tasks (Garden Grove)						Cost / Int		Total Cost
Task 1: Projec	t Management	- PI Phase			\$	2,000.00	\$	46,000.00
Task 2: Data C	Collection				\$	5,000.00	\$	115,000.00
Task 3: Systen	n Design and C	Construction				-	\$	1,850,521.50
Task 4: Signal	Timing Optimiz	zation and Imp	lementation		\$	5,000.00	\$	15,000.00
Task 5: Projec	t Report				\$	1,500.00	\$	34,500.00
Task 6: Projec	t Management	- O&M Phase			\$	1,000.00	\$	23,000.00
Task 7: Contin	uing Support				\$	3,500.00	\$	80,500.00
Task 8: Final T	Task 8: Final Technical Memorandum \$					800.00	\$	18,400.00
M2 Requested Match					Total Cost			st
PI		1,648,817.20	\$	412,204.30	\$			2,061,021.50
O&M	\$	97,520.00	\$	24,380.00) \$ 121,900.00			

Westminster		Agency	Caltrans	Offset		Total		
Numb	ber of Signals:	4	5			9		
Project Tasks (Westminster)						Cost / Int		Total Cost
Task 1: Projec	t Management	- PI Phase			\$	2,000.00	\$	18,000.00
Task 2: Data C	Collection				\$	5,000.00	\$	45,000.00
Task 3: System	n Design and C	Construction				-	\$	383,018.50
Task 4: Signal	Timing Optimiz	zation and Imp	lementation		\$	5,000.00	\$	25,000.00
Task 5: Projec	t Report				\$	1,500.00	\$	13,500.00
Task 6: Projec	t Management	- O&M Phase			\$	1,000.00	\$	9,000.00
Task 7: Continuing Support					\$	3,500.00	\$	31,500.00
Task 8: Final Technical Memorandum				\$	800.00	\$	7,200.00	
M2 Requested Match					Total	Co	st	
PI	\$	387,614.80	\$	96,903.70	\$			484,518.50

9,540.00 \$

38,160.00

Orange		Agency	Caltrans	Offset	Total		
Num	ber of Signals:	1			1		
Project Tasks (Orange)					Cost / Int		Total Cost
Task 1: Projec	t Management -	PI Phase			\$ 2,000.00	\$	2,000.00
Task 2: Data (Collection				\$ 5,000.00	\$	5,000.00
Task 3: Syster	m Design and Co	onstruction			-	\$	37,697.00
Task 4: Signal	Timing Optimiza	ation and Imp	lementation		\$ -	\$	-
Task 5: Projec	t Report				\$ 1,500.00	\$	1,500.00
Task 6: Projec	t Management -	O&M Phase			\$ 1,000.00	\$	1,000.00
Task 7: Contin	uing Support				\$ 3,500.00	\$	3,500.00
Task 8: Final Technical Memorandum				\$ 800.00	\$	800.00	
M2 Requested Match			Total	Co	st		
PI	\$	36,957.60	\$	9,239.40	\$		46,197.00
O&M	\$	4,240.00	\$	1,060.00	\$		5,300.00

Garden Grove Boulevard / West Memory Lane SECTION 4: FUNDING NEEDS / COSTS FOR PROPOSED PROJECT BY TASK

Santa Ana	Agency	Caltrans	Offset	Total
Number of Signals:	1			1

Project Tasks (Santa Ana)					Cost / Int		Total Cost
Task 1: Project Management - PI Phase				\$	2,000.00	\$	2,000.00
Task 2: Data Collection					5,000.00	\$	5,000.00
Task 3: System Design and Construction					-	\$	82,225.00
Task 4: Signal Timing Optimization and Implementation					-	\$	-
Task 5: Project Report				\$	1,500.00	\$	1,500.00
Task 6: Projec	t Management - O&M Phase			\$	1,000.00	\$	1,000.00
Task 7: Contin	nuing Support			\$	3,500.00	\$	3,500.00
Task 8: Final Technical Memorandum				\$	800.00	\$	800.00
M2 Requested Match				Total	Cos	st	
PI	\$ 72,580.00	\$	18,145.00	\$			90,725.00
O&M	\$ 4,240.00	\$	1,060.00	\$			5,300.00

Garden Grove Boulevard / West Memory Lane SECTION 4: FUNDING NEEDS / COSTS FOR PROPOSED PROJECT BY TASK

c. Summary of Intersection Improvement Costs

			TASK 3 IMPROVEMENT TOTALS						
LOC.	AGENCY	PROJECT CROSS STREETS)esign		onstruction		TOTAL	Average Score
	Westminster	Valley View St*	\$	-	\$	2,500.00	\$	2,500.00	50.00
	Westminster	I-405/SR-22 Interchange*	\$	-	\$	2,500.00	\$	2,500.00	50.00
	Westminster	Edwards Street	\$	7,300.00	\$	106,929.50	\$	114,229.50	36.67
4	Westminster	SR-22 EB Off Ramp*	\$	-	\$	2,500.00	\$	2,500.00	50.00
5	Westminster	Knott Street/Goldenwest Street*	\$	-	\$	2,500.00	\$	2,500.00	50.00
6	Westminster	SR-22 WB Off Ramp/Eagle Drive*	\$	-	\$	2,500.00	\$	2,500.00	50.00
7	Westminster	Western Avenue	\$	9,300.00	\$	132,759.50	\$	142,059.50	31.67
8	Westminster	Hoover Street	\$	7,300.00	\$	106,929.50	\$	114,229.50	36.67
9	Westminster	Village Center Drive	\$	-	\$	-	\$	-	
10	Garden Grove	Beach Bvd (SR-39)*	\$	-	\$	-	\$	-	
11	Garden Grove	Dale Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
12	Garden Grove	Newland Street	\$ 1	1,300.00	\$	158,589.50	\$	169,889.50	35.83
13	Garden Grove	Magnolia Street	\$ 1	8,300.00	\$	242,669.50	\$	260,969.50	32.86
14	Garden Grove	Casa Linda Lane	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
15	Garden Grove	Gilbert Street	\$	6,500.00	\$	83,947.50	\$	90,447.50	22.50
16	Garden Grove	Galway Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
17	Garden Grove	Brookhurst Way/Kerry Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
18	Garden Grove	Brookhurst Street	\$ 1	8,300.00	\$	242,669.50	\$	260,969.50	32.86
19	Garden Grove	Nutwood Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
20	Garden Grove	Nelson Street/Century Boulevard	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
21	Garden Grove	Main Street	\$	8,500.00	\$	109,777.50	\$	118,277.50	31.67
22	Garden Grove	Euclid Street	\$ 1	0,800.00	\$	145,807.00	\$	156,607.00	29.17
23	Garden Grove	Ninth Street/Nina Place	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
24	Garden Grove	Newhope Street	\$	5,800.00	\$	87,557.00	\$	93,357.00	29.00
25	Garden Grove	West Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
26	Garden Grove	Harbor Boulevard	\$ 1	8,300.00	\$	242,669.50	\$	260,969.50	27.14
27	Garden Grove	Palm Street		1,000.00	\$	12,915.00	\$	13,915.00	15.00
28	Garden Grove	Pedestrian Crossing (Garden Grove Hospital	1\$	3,000.00	\$	38,745.00	\$	41,745.00	32.50
29	Garden Grove	Partridge Street	\$	1,000.00	\$	12,915.00	\$	13,915.00	15.00
30	Garden Grove	Haster St/SR-22 WB On Ramp*	\$	-	\$	-	\$	-	
31	Garden Grove	Fairview St/SR-22 EB On Ramp*	\$	-	\$	-	\$	-	
32	Garden Grove	Lewis Street	\$ 1	6,300.00	\$	216,839.50	\$	233,139.50	35.00
	Orange	The City Drive	\$	1,800.00	\$	35,897.00	\$	37,697.00	40.00
34	Santa Ana	Bristol Street	\$	5,000.00	\$	77,225.00	\$	82,225.00	40.00
-	Garden Grove	TMC Improvements	\$	-	\$	25,000.00	\$	25,000.00	40.00
		T TOTAL =	\$	2,353,462.00	30.10				

PART 1: AGENCY TOTAL MATCH SUMMARY

Agonov	CA	SH	IN-F	(IND	TOTAL	MATCH	
Agency	PI	OMM	PI	OMM	PI	OMM	
O and an One	\$383,104.30	\$24,380.00	\$29,100.00	\$0.00	\$412,204.30	\$24,380.00	
Garden Grove	\$407,4	184.30	\$29,1	\$29,100.00		584.30	
	\$96,903.70	\$9,540.00	\$0.00	\$0.00	\$96,903.70	\$9,540.00	
Westminster	\$106,443.70		\$0.00		\$106,443.70		
	\$9,239.40	\$1,060.00	\$0.00	\$0.00	\$9,239.40	\$1,060.00	
Orange	\$10,299.40		\$0.00		\$10,299.40		
Santa Ana	\$18,145.00	\$1,060.00	\$0.00	\$0.00	\$18,145.00	\$1,060.00	
Santa Ana	\$19,205.00		\$0.00		\$19,205.00		
TOTAL MATCH	\$507,392.40	\$36,040.00	\$29,100.00	\$0.00	\$536,492.40	\$36,040.00	
TOTAL MATCH	\$543,432.40		\$29,1	00.00	\$572,532.40		

PART 2: MATCH BREAKDOWN (CASH vs IN-KIND SERVICES)

A. Cash Match

Agency	Funding Source	Amount of Cash Contribution
Garden Grove	M2 Turnback	\$407,484.30
Westminster	General Fund	\$106,443.70
Orange AQMD		\$10,299.40
Santa Ana	General Fund	\$19,205.00
то	\$524,227.40	

B. In-Kind Services

i. Specific Improvements (List items and Cost):

Agency	Description	Expenditure
Garden Grove	Garden Grove Controllers (2)	
	Total Specific Improvements (i):	\$15,000.00

ii. Staffing Commitment:

Agency	Staff Position	Type of Service to Project	No. of Hours	Fully Burdened Hourly Rate	Total*	
	City Traffic Engineer	Meetings, report review	10	\$300.00	\$3,000.00	
Garden Grove	Associate Engineer	timing review, field implementation oversight	50	\$120.00	\$6,000.00	
Galdell Glove	Inspector	field inspection	20	\$180.00	\$3,600.00	
	City Staff Support	timing and report review	10	\$150.00	\$1,500.00	
Total for City of Garden Grove:						
Total Staffing Commitment (ii):						

TOTAL IN-KIND MATCH* (i + ii): \$29.100.0	10

^{*}Total amount is the required participation by the identified agency. The number of hours and hourly rate will be based on each agency's actual fully burdened billing rates, which must collectively equal the same value of the assigned "Total" dollars. Each agency will be responsible for keeping detailed records of hours worked and description of work. An accounting record of personnel, hours at fully burdened rate shall be included with the in-kind report submittals. Records will be subject to auditing. In-kind match can be converted to Cash Match, but Cash Match cannot be converted to in-kind match.

SECTION 6: PROJECT SCHEDULE BY TASK

a. Projected Start and End Dates:

Project start date: September 2, 2026

Project end date: July 31, 2029

b. Projected Schedule by Task

Task	Starting Date	Ending Date
Task 1: Project Management - PI Phase	September 2, 2026	September 1, 2027
Task 2: Data Collection	September 15, 2026	December 1, 2026
Task 3: System Design and Construction	September 15, 2026	March 2, 2027
Task 4: Signal Timing Optimization and Implementation	September 15, 2026	May 29, 2027
Task 5: Project Report	June 1, 2027	June 30, 2027
Task 6: Project Management - O&M Phase	July 1, 2027	June 30, 2029
Task 7: Continuing Support	July 1, 2027	June 30, 2029
Task 8: Final Technical Memorandum	July 1, 2029	July 31, 2029

Appendix A CALCULATIONS AND ESTIMATED POINTS

APPENDIX A: CALCULATIONS AND ESTIMATED POINTS

Criteria (Max Points)	Estimated Points
Transportation Significance (25 points)	
Yes, all agencies are participating in the Countywide Baseline Project	
Inclusion of offset signals on MPAH w/in 2,700'	20
# <u>of offset signals on project / total # of offset signals</u> : 0 / 37 = 100.0%	20
= 10	
<u>Vehicle Miles Traveled (VMT)</u> : <u>205,521</u> = 10	
2. Economic Effectiveness (Cost to Benefit Ratio): (10 points)	G
Calculation for Total Project Cost / VMT = \$2,862,662 / 205,521 = 13.90	6
3. Project Characteristics: (20 points)	10
Average project improvement score = 30.10	10
4. Project Scale: (20 points)	
# <u>of signals along entire length of corridor(s)</u> : <u>34</u> = 6	16
# <u>of signals being synched / total # of corridor signals:</u> 34 / 34 = 100.0%	10
= 10	
5. Number of Jurisdictions: (15 points)	44
4 Participating Jurisdiction(s)	11
6. Current Project Status (5 points)	
Re-timing at least 75% of previous project = 5	5
7. Funding Match: (5 points)	0
\$572,532.40 / \$2,862,662.00 = <u>20.00%</u>	0
Total Estimated Points:	68

Appendix B AGENCY IMPROVEMENT CALCULATIONS

Opticom (hybrid)

TABLE I: AGENCY IMPROVEMENT PREFERENCES

☐ Yes ☑ No

UNIT PRICE (MATERIAL + LABOR) APPLICABLE DESIGN COST PER UNIT **VENDOR/BRAND & ADDITIONAL NOTES** CATEGORIES ID ITEM DESCRIPTION **Garden Grove** Westminster Orange Santa Ana Garden Grove Westminster Orange Santa Ana Garden Grove Westminster Orange Cisco Ethernet switch + SFP; 120-SMFO in existing conduit; 12-Comm 2 Fiber Optic underground \$10,000 \$1,000 SMFO drop cable; FDU, splice enclosure; #6E & #6 pullboxes; hub switch 4 ATC signal controller \$10,000 \$10,000 \$10,000 \$10,000 Cobalt 2070 Cobalt TS-2, Type 1, P44 on Type 333 cabinet on Signal cabinet on existing foundation \$55,000 \$55,000 \$5,500 \$5,500 existing foundation and existing foundation new Type 2 service and Type 3 service TS-2, Type 1, P44 on Type 333 cabinet on Signal cabinet on new foundation Field \$75,000 \$75,000 \$7,500 \$7,500 new foundation and new new foundation and Type 2 service Type 3 service Elements \$18,000 \$18,000 \$18,000 \$1,800 \$1,800 \$1,800 Axis CCTV Cohu CCTV Cohu CCTV 10 CCTV \$45,000 \$50,000 \$5,000 \$5,000 Autoscope 13 Vehicle detection + bicycle detection Polara APS & audible Pedestrian detection (audible) \$20,000 \$2,000 push buttons 20 EVP (hybrid or GPS) \$10,000 \$1,000

APPENDIX B: AGENCY IMPROVEMENT CALCULATIONS TABLE I: AGENCY IMPROVEMENT PREFERENCES

			•
CATEGORIES	ID	ITEM DESCRIPTION	Santa Ana
Comm	2	Fiber Optic underground	
	4	ATC signal controller	Cobalt
	5	Signal cabinet on existing foundation	
Field Elements	6	Signal cabinet on new foundation	
	10	CCTV	
	13	Vehicle detection + bicycle detection	Iteris Apex
	16	Pedestrian detection (audible)	
	20	EVP (hybrid or GPS)	

Garden Grove Boulevard / West Memory Lane

	I		DESCRIPTION OF WORK									
LOCATION	IMPLEMENTING AGENCY	PROJECT CROSS STREETS	⊳ Fiber Optic underground	ATC signal controller	Signal cabinet on existing foundation	Signal cabinet on new foundation	10 CCTV	Vehicle detection + bicycle detection	Pedestrian detection 9 (audible)	BVP (hybrid or GPS)	Central System (server,	Caltrans Cooperative
1	Westminster	Valley View St*		İ	İ			ĺ	ĺ			1
2	Westminster	I-405/SR-22 Interchange*										1
3	Westminster	Edwards Street		1	1		1					
4	Westminster	SR-22 EB Off Ramp*										1
5	Westminster	Knott Street/Goldenwest Street*										1
6	Westminster	SR-22 WB Off Ramp/Eagle Drive*										1
7	Westminster	Western Avenue		1		1	1					
8	Westminster	Hoover Street		1	1		1					
9	Westminster	Village Center Drive										
10	Garden Grove											
11	Garden Grove		1									
12		Newland Street	1	1	1		1		1	1		
13	Garden Grove	Magnolia Street	1	1		1	1	1	1	1		
14	Garden Grove	Casa Linda Lane	1									
15	Garden Grove	Gilbert Street	1		1							
16	Garden Grove	Galway Street	1									
17	Garden Grove	Brookhurst Way/Kerry Street	1									
18	Garden Grove	Brookhurst Street	1	1		1	1	1	1	1		
19	Garden Grove	Nutwood Street	1									
20	Garden Grove	Nelson Street/Century Boulevard	1									
21	Garden Grove		1		1				1			
22	Garden Grove		1	1			1	1	1	1		
23		Ninth Street/Nina Place	1									
24		Newhope Street	1	1			1		1	1		
25	Garden Grove	·	1									
		Harbor Boulevard	1	1		1	1	1	1	1		
27	Garden Grove	Palm Street	1									
28		Pedestrian Crossing (Garden Grove H	1						1			
29		Partridge Street	1									
30		Haster St/SR-22 WB On Ramp*										
31		Fairview St/SR-22 EB On Ramp*										
32	Garden Grove	Lewis Street	1	1	1		1	1	1	1		T
33	Orange	The City Drive	<u> </u>	1			1	-	-			\vdash
34	Santa Ana	Bristol Street		1				1				
-	Garden Grove	TMC Improvements		- 				- 			1	T
	1 3325 3.010	QUANTITY TOTAL =	20	12	6	4	11	6	9	7	1	5

LOCATION	MPLEMENTING AGENCY	DDO JECT CDOSS STREETS	Decien	Construction	Construction Management & Inspection	Contingency	Caltrans Cooperative Agreement	TOTAL	NOTES
 -	= Westminster	PROJECT CROSS STREETS Valley View St*	Design \$ -	Construction \$ -	\$ -	\$ -	Fees (\$2,500) \$ 2,500.00	* 2,500.00	NOTES
2		I-405/SR-22 Interchange*	\$ -	\$ -	φ - ¢ -	\$ -	\$ 2,500.00		
3		Edwards Street	\$ 7,300.00	\$ 83,000.00	\$ 13,545.00	\$ 10,384.50		\$ 2,500.00 \$ 114,229.50	
1		SR-22 EB Off Ramp*	\$ 7,300.00	^	¢ 13,343.00	\$ 10,384.30	\$ 2,500.00	• ,	
5		Knott Street/Goldenwest Street*	<u>,</u>	Φ.	<u>-</u> φ	\$ -	\$ 2,500.00	· ,	
5			\$ -	\$ - \$ -	\$ -	\$ -			
7		SR-22 WB Off Ramp/Eagle Drive* Western Avenue	\$ 9,300.00	\$ 103,000.00	\$ 16,845.00	\$ 12,914.50	\$ 2,500.00	\$ 2,500.00 \$ 142,059.50	
0		Hoover Street	\$ 9,300.00	\$ 83,000.00	\$ 16,845.00	\$ 12,914.50		\$ 142,059.50 \$ 114,229.50	
0		Village Center Drive	\$ 1,300.00 ¢	^	φ 13,5 4 5.00	\$ 10,364.50 e		\$ 114,229.50 \$ -	
10		Beach Bvd (SR-39)*	\$ -	\$ - \$ -	φ -	Φ -	T	3 - \$ -	
10	Garden Grove	, ,	\$ 1,000.00	\$ 10,000.00	\$ 1,650.00	\$ 1,265.00	т	\$ 13,915.00	
12	Garden Grove		\$ 1,000.00	\$ 123,000.00	\$ 1,050.00	\$ 15,444.50		\$ 169,889.50	
12		Magnolia Street	\$ 18,300.00	\$ 188,000.00		\$ 23,724.50		\$ 260,969.50	
1/		Casa Linda Lane	\$ 1,000.00			\$ 1,265.00		\$ 260,969.50 \$ 13,915.00	
15	Garden Grove		\$ 6,500.00			\$ 8,222.50		\$ 90,447.50	
16	Garden Grove		\$ 1,000.00			\$ 1,265.00		\$ 13,915.00	
17		Brookhurst Way/Kerry Street	\$ 1,000.00			\$ 1,265.00		\$ 13,915.00 \$ 13,915.00	
18		Brookhurst Street	\$ 18,300.00			\$ 23,724.50		\$ 260,969.50	
10	Garden Grove		\$ 1,000.00			\$ 1,265.00		\$ 13,915.00	
20		Nelson Street/Century Boulevard	\$ 1,000.00			\$ 1,265.00		\$ 13,915.00 \$ 13,915.00	
21	Garden Grove		\$ 8,500.00			\$ 10,752.50		\$ 118,277.50	
22	Garden Grove		\$ 10,800.00			\$ 10,732.30		\$ 156,607.00	
23		Ninth Street/Nina Place	\$ 1,000.00	· · · · · · · · · · · · · · · · · · ·		\$ 1,265.00		·	
24		Newhope Street	\$ 5,800.00			\$ 8,487.00		\$ 93,357.00	
	Garden Grove		\$ 1,000.00					\$ 13,915.00	
		Harbor Boulevard		\$ 188,000.00				\$ 260,969.50	
	Garden Grove		\$ 1,000.00					\$ 13,915.00	
		<u> </u>	\$ 3,000.00					\$ 41,745.00	
		Partridge Street	\$ 1,000.00					\$ 13,915.00	
30		Haster St/SR-22 WB On Ramp*			\$ -	\$ -		<u>-</u>	
31		Fairview St/SR-22 EB On Ramp*	\$ -	\$ -	-	\$ -		\$ -	
32	Garden Grove		\$ 16,300.00			\$ 21,194.50		\$ 233,139.50	
		The City Drive	\$ 1,800.00					\$ 37,697.00	
34		Bristol Street	\$ 5,000.00		\$ 9,750.00	\$ 7,475.00		\$ 82,225.00	
<u> </u>	Garden Grove	TMC Improvements	\$ -	\$ 25,000.00			\$ -	\$ 25,000.00	
		QUANTITY TOTAL =		SIGN	AL IMPROVEN	ENT TOTAL =		\$ 2,353,462.00	

APPENDIX B: AGENCY IMPROVEMENT CALCULATIONS

TABLE III: PROJECT AVERAGE IMPROVEMENT SCORES

	<u> </u>		DESCRIPTION OF WORK										
LOCATION	IMPLEMENTING AGENCY	PROJECT CROSS STREETS	စ် g Fiber Optic underground	Z ATC signal controller		Signal cabinet on new foundation			ာ Pedestrian detection A (audible)	EVP (hybrid or GPS) F Central System (server, Glicenses, workstations)		AVERAGE IMPROVEMENT SCORE	NOTES
	Westminster	Valley View St*									50	50.00	
	Westminster	I-405/SR-22 Interchange*									50	50.00	
3	Westminster	Edwards Street		50	30		30					36.67	
4	Westminster	SR-22 EB Off Ramp*									50	50.00	
5	Westminster	Knott Street/Goldenwest Street*									50	50.00	
	Westminster	SR-22 WB Off Ramp/Eagle Drive*									50	50.00	
	Westminster	Western Avenue		50		15	30					31.67	
	Westminster	Hoover Street		50	30		30					36.67	
9	Westminster	Village Center Drive											
10	Garden Grove	Beach Bvd (SR-39)*											
11	Garden Grove	Dale Street	15									15.00	
12	Garden Grove	Newland Street	15	50	30		30		50	40		35.83	
13	Garden Grove	Magnolia Street	15	50		15	30	30	50	40		32.86	
14	Garden Grove	Casa Linda Lane	15									15.00	
15	Garden Grove	Gilbert Street	15		30							22.50	
16	Garden Grove	Galway Street	15									15.00	
17	Garden Grove	Brookhurst Way/Kerry Street	15									15.00	
18	Garden Grove	Brookhurst Street	15	50		15	30	30	50	40		32.86	
19	Garden Grove	Nutwood Street	15									15.00	
20	Garden Grove	Nelson Street/Century Boulevard	15									15.00	
21	Garden Grove	Main Street	15		30				50			31.67	
22	Garden Grove	Euclid Street	15	10			30	30	50	40		29.17	
23	Garden Grove	Ninth Street/Nina Place	15									15.00	
24	Garden Grove	Newhope Street	15	10			30		50	40		29.00	
25	Garden Grove	West Street	15									15.00	
26	Garden Grove	Harbor Boulevard	15	10		15	30	30	50	40		27.14	
27	Garden Grove	Palm Street	15									15.00	
28	Garden Grove	Pedestrian Crossing (Garden Grove Hospital)	15						50			32.50	
29	Garden Grove	Partridge Street	15									15.00	
30	Garden Grove	Haster St/SR-22 WB On Ramp*											
31	Garden Grove	Fairview St/SR-22 EB On Ramp*											

APPENDIX B: AGENCY IMPROVEMENT CALCULATIONS

TABLE III: PROJECT AVERAGE IMPROVEMENT SCORES

			DESCRIPTION OF WORK					F W	ORK		l		
OCATION	IMPLEMENTING AGENC		Fiber Optic underground	ATC signal cor	Signal cabinet on existing foundation	*, +	ссту	Vehicle detection + bicycle detection		EVP (hybri Central Sy: licenses, w	Caltrans Cooperative Agreement	AVERAGE IMPROVEMENT SCORE	
	=	PROJECT CROSS STREETS	ıe Sοι	Noi	ne/5+	Year	s or v	Withi	n 5 Ye	ears + or	Y/N	≥∀	NOTES
32	Garden Grove	Lewis Street	15	50	30		30	30	50	40		35.00	
33	Orange	The City Drive		50			30					40.00	
34	Santa Ana	Bristol Street		50				30				40.00	
_	Garden Grove	TMC Improvements								40		40.00	
	AVERAGE SCORE =								30.10				

Appendix C

VEHICLE MILES TRAVELED (VMT)

	Segment	ADTs	Segment Length	VMT
	Valley View St to Edwards St	11,052	1.33	14,699
	Edwards St to Knott St/Goldenwest St	19,570	0.51	9,981
	Knott St/Goldenwest St to Western Ave	25,790	0.35	9,027
ane	Western Ave to Hoover St	23,200	0.16	3,712
Ž Ļ	Hoover St to Beach Blvd	20,705	0.33	6,833
emo	Beach Blvd to Newland Dr	22,569	0.42	9,479
Garden Grove Boulevard / West Memory Lane	Newland Dr to Magnolia St	28,428	0.34	9,666
W _e	Magnolia St to Gilbert St	29,578	0.47	13,902
/ard	Gilbert St to Brookhurst St	23,602	0.69	16,285
onle	Brookhurst St to Nelson St/Century Blvd	30,922	0.58	17,935
e Be	Nelson St/Century Blvd to Euclid St	27,192	0.41	11,149
Gro	Euclid St to Newhope St	30,197	0.50	15,099
den	Newhope St to Harbor Blvd	35,003	0.52	18,202
Gar	Harbor Blvd to Haster St	26,652	0.80	21,322
	Haster St to Lewis St	25,203	0.50	12,602
	Lewis St to The City Dr	19,543	0.39	7,622
	The City Dr to Bristol St	22,249	0.36	8,010
	То	tal Project VMT:	8.66	205,521

Source:

City of Westminster ADT Counts (2025) City of Orange ADT Counts (2025) City of Santa Ana Traffic Census (2025) City of Garden Grove Traffic Counts (2025)

Appendix D

AGENCY RESOLUTIONS AND LETTERS OF SUPPORT

Appendix E ADDITIONAL INFORMATION