COOPERATIVE AGREEMENT BY AND BETWEEN THE CITIES OF HUNTINGTON BEACH, GARDEN GROVE AND WESTMINSTER FOR THE VALLEY VIEW STREET/BOLSA CHICA STREET CORRIDOR TRAFFIC SIGNAL SYNCHRONIZATION PROJECT

This Cooperative Agreement ("Agreement") is made and entered into this 2157 day of MARCH. 2023, by and between the CITY OF HUNTINGTON BEACH, the CITY OF GARDEN GROVE and the CITY OF WESTMINSTER.

- A. The City of Huntington Beach, with cooperation from the Cities of Garden Grove and Westminster, applied for a grant from the Orange County Transportation Authority ("OCTA") Measure M2 Regional Traffic Signal Synchronization Program ("RTSSP"), aimed to coordinate traffic signals across multiple jurisdictions to enhance the countywide traffic flow and reduce congestion.
- B. The Valley View Street/Bolsa Chica Street Corridor Traffic Signal Synchronization Project was selected by OCTA as one of the RTSSP Projects to be funded in OCTA Fiscal Year 2020-2021. A two-year project delay was received from OCTA, with a revised project funding Fiscal Year of 2022-2023. The project will include timing implementation and improvements at traffic signals along Valley View Street/Bolsa Chica Street, from Chapman Avenue in Garden Grove to Warner Avenue in Huntington Beach, as listed in the Project Application attached hereto as Exhibit B and incorporated herein by this reference.
- C. The total budget for the project is \$1,871,410. Of this budget, 80% (\$1,497.120) is funded by the OCTA Regional Traffic Signal Synchronization Program and 20% (\$374,280) is local agencies matching funds. The breakdown is shown in Exhibit A attached hereto and incorporated herein by this reference.
- D. Huntington Beach, Garden Grove and Westminster agree to provide twenty percent (20%) matching funds for the total project cost. Matching funds can be a combination of cash and in-kind match as defined by the RTSSP grant.
- E. OCTA and Huntington Beach have entered into a Master Funding Agreement "Cooperative Agreement No. C-1-2765" defining the terms and conditions for approved Measure M2 projects that will be implemented by Huntington Beach.
- F. Huntington Beach agrees to serve as the lead agency to oversee the design and implementation of the project.
- G. Huntington Beach, Garden Grove and Westminster desire to enter into this Cooperative Agreement to demonstrate their commitment to implement the project and improve interjurisdiction traffic signal synchronization on Valley View Street/Bolsa Chica Street.
- H. This Cooperative Agreement defines the specific terms, conditions and funding responsibilities between Huntington Beach, Garden Grove and Westminster for the implementation of the project.

NOW THEREFORE, it is mutually understood and agreed by and between HUNTINGTON BEACH, GARDEN GROVE AND WESTIMINSTER:

I. SCOPE:

This Agreement specifies the roles and responsibilities of the cities as they pertain to the subjects and projects addressed herein. The project is specifically detailed in the Project Application attached hereto as Exhibit B and incorporated herein by this reference. All of the cities agreed that each will cooperate and coordinate with the other in all activities covered by this Agreement and any other supplemental agreements that may be required to facilitate purposes thereof.

II. MUTUAL RESPONSIBLITIES:

Huntington Beach, Garden Grove and Westminster mutually agree to:

- a. Designate a lead staff to act as the liaison for the project. The liaison and any other project personnel, if necessary, will attend and participate in all related project meetings.
- b. Participate, cooperate and coordinate with contractors, consultants, vendors and staff in good faith using reasonable efforts to resolve any unforeseen issues and disputes arising out of the project to the extent practicable with respect to the performance of the project.
- c. Maintain project related traffic signals and telecommunications equipment with high priority during the project, and be responsible for repair of their own signal control systems in each of their respective jurisdictions.
- d. Provide on-site support for signal control systems, timing plans, detection systems and related equipment during construction, installation and integration, and be available to change or make adjustments to timing plans when necessitated by the project.
- e. Document in-kind match or dollar match funding as identified in the project application, and provide verification of such expenditures as part of any review or audit process, which may include payroll records, contracts and purchase orders.
- f. Monitor and operate the project traffic signals and improvements within its jurisdiction for a period of two (2) years following the completion of the Primary Implementation Phase of the project, as required by the program funding.
- g. Coordinate the inclusion of other improvements and in-kind services, where necessary, that the owning agency requires for the implementation of the project, but are not included in the project application. The owning agency shall be responsible for the inclusion of such elements within reason and at its own costs.

h. Unused project funds for improvements from one City can be used by another City (with matching fund responsibility) upon mutual consent of the involved parties.

III. RESPONSIBILITIES OF HUNTINGTON BEACH:

Huntington Beach agrees to the following responsibilities:

- a. Huntington Beach shall serve as lead agency for design and traffic signal timing implementation and shall provide oversight by establishing milestones and overseeing the project development to ensure that all standards and requirements set forth by the agreement is adhered to.
- b. Huntington Beach shall be responsible for completing the project inaccordance with the funding guidelines and any and all other OCTA requirements related to these funding programs. Huntington Beach shall maintain coordination with all participating agencies throughout the duration of the project.
- c. Huntington Beach shall provide staff, consultants, and contractors deemed necessary and appropriate to manage, administer, coordinate, and oversee engineering design and timing implementation of the project.
- d. Huntington Beach shall coordinate the work effort of the Project, provide the day-to-day management of the consultant and manage all consultant administration. Huntington Beach shall review the consultant's invoices and pay them accordingly after ensuring that the work has been adequately performed by the consultant.
- e. Huntington Beach shall provide its share of matching fund as shown in Exhibit A attached hereto and incorporated herein by this reference. The final amount may vary and will be based on the 20% of actual cost of implementing all timing, improvements and maintenance, as identified in the project application.
- f. Upon issuance of a Notice to Proceed to the Consultant, Huntington Beach can issue invoices to Garden Grove and Westminster for up to 80% of the cash match amount identified in Exhibit A. The remaining case match amount will be invoiced after completion of the Primary Implementation Phase of the project.
- g. Huntington Beach shall comply with all of the terms and conditions of the Cooperative Agreement with OCTA, including the Project Reporting and Audit Requirements contained therein.

IV. RESPONSIBILITIES OF GARDEN GROVE:

Garden Grove agrees to the following responsibilities:

- a. Garden Grove shall provide its share of matching funds as shown in Exhibit A. The final amount may vary and will be based on the 20% of actual cost of the implementing all timing, improvements and maintenance, as identified in the project application.
- b. Garden Grove shall be responsible for construction contracting, construction administration and construction inspection for all improvements within its jurisdiction. Costs of such inspection services shall be part of the in-kind labor services provided within the matching fund. No additional compensation from the project is provided for providing inspection services.
- c. Garden Grove shall waive all costs and fees related to any and all permits, if such permits are required to perform any project related work in its jurisdiction.

V. RESPONSIBILITIES OF WESTMISTER:

Westminster agrees to the following responsibilities:

- a. Westminster shall provide its share of matching funds as shown in Exhibit A. The final amount may vary and will be based on the 20% of actual cost of implementing all timing, improvements and maintenance, as identified in the project application.
- b. Westminster shall be responsible for construction contracting, construction administration and construction inspection for all improvements within its jurisdiction. Costs of such inspection services shall be part of the in-kind labor services provided within the matching fund. No additional compensation from the project is provided for providing inspection services.
- c. Westminster shall waive all costs and fees related to any and all permits, if such permits are required to perform any project related work in its jurisdiction.

VI. COMPLETE AGREEMENT

- a. This Agreement, including any attachments incorporated herein and made applicable by reference, constitutes the complete and exclusive statement of the terms and conditions of this Agreement between HUNTINGTON BEACH, GARDEN GROVE AND WESTMINSTER and it supersedes all prior representations, understandings and communications between the parties. The invalidity in whole or in part of any term or condition of this Agreement shall not affect the validity of other term(s) or condition(s) of this Agreement. The above referenced Recitals are true and correct and are incorporated by reference herein.
- b. Any modifications of this Agreement shall only be by amendment upon written mutual consent of all cities. All modifications, amendments, changes and revision of this Agreement in whole or in part, and from time to time, shall be binding upon the cities so long as the same shall be in writing and executed by each agency.
- c. A party's failure to insist on any instance(s) of any other party's performance of any term(s) or condition(s) of this Agreement shall not be construed as a waiver of the non-enforcing party's right to such performance or to future performance of such

term(s) or condition(s), and the non-performing party's obligations in respect thereto shall continue in full force and effect. Changes to any portion of this Agreement shall not be binding upon either party except when specifically confirmed in writing by way of a written amendment to this Agreement between the parties and issued in accordance with the provisions of this Agreement.

VII. INSURANCE AND INDEMNIFICATION

- a. Each City shall jointly and severally indemnify, defend and hold harmless every other City, it's officers, directors, employees and agents from and against any and all claims for any loss or damages, bodily injuries, damage to, or loss of property caused by the negligent acts, omissions or willful misconduct by the City, its officers, directors, employees, or agents in connection with or arising out of the performance of this Agreement.
- Each City shall maintain adequate levels of insurance, or self-insurance to assure full indemnification of every other City.

VIII. ADDITIONAL PROVISIONS

- a. Term of Agreement: This Agreement shall continue in full force and effect until December 31, 2026. This Agreement may be extended at the mutual consent of all parties in writing.
- b. HUNTINGTON BEACH, GARDEN GROVE and WESTIMINSTER hereto affirm that they are authorized to execute this Agreement on behalf of said parties and that, by so executing this Agreement, the parties hereto are formally bound to the provisions of this Agreement.
- c. Severability: If any term, provision, covenant or condition of this Agreement is held to be invalid, void or otherwise unenforceable to any extent, by any court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby, and each term, provision, covenant or condition of this Agreement shall be valid and enforceable to the fullest extent permitted by law.
- d. Counterparts of Agreement: This Agreement may be executed and delivered in any number of counterparts, each of which, when executed and delivered shall be deemed an original and all of which together shall constitute the same agreement. Facsimile and electronic signatures will be permitted.
- e. In the event that the project costs exceed the estimates submitted in the Project Application as prepared, all parties agree to meet and determine project revisions to meet the budget, or a revised funding proposal by the Cities that shall be documented and submitted in writing as a revision to the Agreement.
- f. The parties shall comply with all applicable Federal, State and local laws, statutes, ordinances and regulations of any governmental agency having jurisdiction over the project.

- g. Force Majeure: Any party shall be excused from performing its obligations under this Agreement during the time and to the extent that it is prevented from performing by any unforeseeable cause beyond its control, including but not limited to, any incident of fire; flood; acts of God; commandeering of material products, plants or facilities by the Federal, State or local government; national fuel shortage; or, a material act or omission by the other party; when satisfactory evidence of such cause is presented to the other parties, and provided further that such non-performance is unforeseeable beyond the control and is not due to the fault or negligence of the party not performing.
- h. Assignment: Neither this Agreement, nor any of the parties' rights, obligations or duties hereunder may be assigned in whole or in part by any party without the prior written consent of all the other parties in their sole and absolute discretion. Any such attempt at assignment shall be deemed void and of no force and effect. Consent to one assignment shall not be deemed consent to any subsequent assignment, nor the waiver of any rights to, consent to such subsequent assignment.
- Obligations to Comply with Law: Nothing herein shall be deemed nor construed to authorize or require any party to issue bonds, notes or other evidences of indebtedness under the terms, in amounts, or for purposes other than as authorized by local, State or Federal law.
- Governing Law: The laws of the State of California and applicable local and Federal laws, regulations and guidelines shall govern this Agreement.
- k. Litigation fees: Should litigation arise out of this Agreement for the performance thereof, the court shall award costs and expenses, including attorney's fees, to the prevailing party.
- Notices: Any notices, requests or demands made between the parties pursuant to this Agreement are to be directed to:

City of Huntington Beach
Public Works/Engineering
Attn: William Janusz, Principal Civil Engineer
2000 Main Street
Huntington Beach, CA 92648
(714) 374-1628

City of Garden Grove Public Works Department Attn: Dai Vu, City Traffic Engineer 11222 Acacia Parkway Garden Grove, CA 92842 (714) 741-5189

City of Westminster
Public Works Department
Attn: Adolfo Ozeata, Transportation Manager
8200 Westminster Blvd.,
Westminster, CA 92683
(714) 554-3462

IX. DELEGATED AUTHORITY

The actions required to be taken by the Cities in this implementation of this Agreement are deleted to its Mayor, City Manager or equivalent designee.

[SIGNATURES ON SUBSEQUENT PAGES]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written:

CITY OF HUNTINGTON BEACH:

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written:

CITY OF GARDEN GR	OVE:
Docusigned by: State James Steve Jones	8/16/2022 —
ATTEST: Docusigned by: Tirusa Poimuroy 8300F295DAD44E7	8/16/2022
City Clerk	
APPROVED AS TO FO	RM:
Omer Handera &	8/16/2022
City Attorney	= = X

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written:

CITY OF WESTMINSTER:

Mayor

ATTEST:

City Clerk, Interim

APPROVED AS TO FORM:

City Attorney

EXHIBIT A Valley View Street / Bolsa Chica Street TSSP Project Funds Breakdown

PROJECT	M2 GRANT	LOCAL MA	ГСН (20%)	
Contract of the Contract of th	(80%)	TOTAL	MATCH TY	PE
		MATCH **	CASH	IN-KIND
\$654,000.00	\$523,200.00	\$134,311.58	\$131,165.58	\$3,146.00
\$567,300.00	\$453,840.00	\$115,654.74	\$32,494.74	\$83,160.00
\$597,600,00	\$478,080.00	\$122,153.68	\$122,153.68	\$0.00
	\$33,360.00	\$0.00	\$0.00	\$0.00
\$1,860,600.00	\$1,488,480.00	\$372,120.00	\$285,814.00	\$86,306.00
	\$567,300.00 \$597,600.00 \$41,700.00	FUNDS BY AGENCY * (80%) \$654,000.00 \$523,200.00 \$567,300.00 \$453,840.00 \$597,600.00 \$478,080.00 \$41,700.00 \$33,360.00	FUNDS BY AGENCY * (80%) TOTAL MATCH ** \$654,000.00 \$523,200.00 \$134,311.58 \$567,300.00 \$453,840.00 \$115,654.74 \$597,600.00 \$478,080.00 \$122,153.68 \$41,700.00 \$33,360.00 \$0.00	FUNDS BY AGENCY * (80%) TOTAL MATCH TYLE CASH \$654,000.00 \$523,200.00 \$134,311.58 \$131,165.58 \$567,300.00 \$453,840.00 \$115,654.74 \$32,494.74 \$597,600.00 \$478,080.00 \$122,153.68 \$122,153.68 \$41,700.00 \$33,360.00 \$0.00 \$0.00

^{*} Unused project funds from one Agency can be transferred to another agency with mutual consent.

^{**} Total match amount may vary; the final match amount will be based on the actual project implementation costs, to be determined at the Primary Implementation Phase of this project.

EXHIBIT B PROJECT APPLICATION 3/19/2020



CITY OF HUNTINGTON BEACH

Public Works Department

Tom Herbel, PE Acting Director of Public Works

March 19, 2020

Mr. Alfonso Hernandez Orange County Transportation Authority 600 S. Main Street Orange, CA 92863

Subject:

Revised Application for Regional Traffic Signal Synchronization Program

Funds Under the Comprehensive Transportation Funding Program

Valley View Street / Bolsa Chica Street from Chapman Avenue to Warner

Avenue

Dear Mr. Hernandez:

The City of Huntington Beach, in conjunction with the Cities of Garden Grove and Westminster, is submitting the enclosed revised application for funding consideration for the Valley View Street / Bolsa Chica Street corridor under the Regional Traffic Signal Synchronization Program of the Comprehensive Transportation Funding Program. The application is for operational and infrastructure improvements along Valley View Street / Bolsa Chica Street from Chapman Avenue to Warner Avenue.

Enclosed is a printout of the revised supplemental application. This application has been revised based upon your comments dated March 18, 2020.

We appreciate your consideration of our application. If there are any questions, please contact me at (714) 374-1628.

Sincerely,

William F. Janusz, P.E. Principal Civil Engineer

Thicpar Civil English

Enclosures

C: Dai Vu, City Traffic Engineer, Garden Grove

Bill (Hoa) Pham, Civil Engineering Associate, Westminster

FY 2020 Call for Projects

Regional Traffic Signal Synchronization Program

Project P

Supplemental Application

VALLEY VIEW STREET / BOLSA CHICA STREET

10/24/2019 - RESUBMITTED 3/19/2020

Project Overview

Length of Corridor (mi): 5.35

Number of signals: 22

Total Project Cost: \$1,860,600.00 M2 funds requested: \$1,488,480.00

Total Match: \$372,120.00 Cash Match: \$285,814.00

In-kind Match: \$86,306.00
Participating agencies: Cities of Garden Grove,

Westminster and Huntington Beach

and Caltrans

Applicant Agency: City of Huntington Beach

Contact Name: William F. Janusz

Contact Number: 714-374-1628

Contact Email: wjanusz@surfcity-hb.org

Project P Regional Traffic Signal Synchronization Program Application Checklist

Project P Application Checklist	Page
RTSSP Online Application – submitted through OCFundTracker	
Vehicle Miles Traveled	
2. Benefic Cost Ratio	
Project Characteristics	
Transportation Significance	Online
5. Maintenance of Effort	Online
6. Project Scale	i
7. Number of Jurisdictions	l
8. Current Project Readiness	ł
9. Funding Over-Match	l
10. Cabinet photos, equipment specifications, as-built drawings, cabinet drawings, etc. (if	Flashdrive
Section 1: Key Technical Information	l .
a. Project Corridor Limits	1
b. Designation of the corridor to synchronize: Signal Synchronization Network corridor or	1
Master Plan of Arterial Highways corridor	
c. Project start date and end date, including any commitment to operate signal	1
synchronization beyond the three year grant period d. Signalized intersections that are part of the project	
e. Traffic Forum members	1 1
Section 2: Lead agency	1
	2
Section 3: Resolutions of support from the project's Traffic Forum members Section 4: Preliminary plans for the proposed project by task (detail below)	3
The plans shall include details about both phases of the project: Primary Implementation (PI) and the Ongoing Maintenance and Operations (O & M). The plan should be organized using the following setup. Primary Implementation shall include details about the following:	
Task 1: Project Administration (required)	Pg. 8-11
Task 2: Data Collection (required)	rg. 0-11
Task 3: Field Review and Plans Specifications and Estimates (required)	
Task 4: Corridor "Before" Study (required)	
Task 5: Signal Timing Optimization and Implementation (required)	
Task 6: Corridor "After" Study (required)	
Task 7: Sychronization System Construction (required)	
Task 8: Project Report (required)	
Task 9: On-going Operations and Maintenance (required)	
Ongoing Maintenance and Operations (O&M) will begin after the Primary Implementation of the project	
is completed. It shall include details about the following:	Pg. 11
a. Monitoring and improving optimized signal timing (required)	
b. Communications and detection support (optional)	
c. O&M Final Memorandum (required)	
Section 5: Funding Needs/Costs for Proposed Project by Task	Pg. 12
a. Table I: Summary of Improvements	Pg. 13
b. Table II: Detailed Improvement Breakdown	Pg. 14-16
Section 6: Project schedule for the 3 year grant period by task	Pg. 17
Section 7: Matching funds	Pg. 18
Section 8: Environmental clearances and other permits	Pg. 19
Section 9: Calculations used to develop selection criteria inputs	Pg. 19-20
Section 10: Any additional information deemed relevant by the applicant	
Appendices	Pg. 21-22
phendices	Pg. 23

SECTION 1: KEY TECHNICAL INFORMATION

a. The proposed project will synchronize Valley View Street / Bolsa Chica Street from Chapman Avenue to Warner Avenue. The project includes (22) signals over approximately (5) miles. Figure 1 shows a map of the project area.

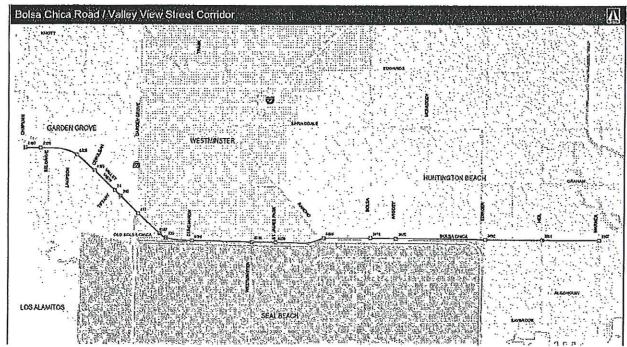


Figure 1: Signalized intersection and proposed project limits.

b.		rridor to synchronize: Arterial Highways Corridor ization Network Corridor			
C.	Project Start Date:	7/1/2020	Project End Date:	6/30/2023	
	All agencies commit t	o operate signal sychro	nization <u>BEYOND</u> the th	A STATE OF THE PERSON AND A STATE OF THE PER	XX
	Zero rears	C One Year	☐ Two Years	☐ Three Years	○ Other
d.	City of Garden Grove 1. Valley View Street @ 2. Valley View Street @ 3. Valley View Street @ 4. Valley View Street @ 5. Valley View Street @ CALTRANS 6. Valley View Street @ 7. Valley View Street @	Chapman Avenue Cinema Main Driveway Belgrave Avenue Lampson Avenue Cerulean Avenue	11. Bolsa Chica 12. Bolsa Chica 13. Bolsa Chica 14. Bolsa Chica 14. Bolsa Chica City of Hunting 15. Bolsa Chica 16. Bolsa Chica 17. Bolsa Chica 18. Bolsa Chica 19. Bolsa Chica 20. Bolsa Chica	a Street @ Westminster B a Street @ St James Park a Street @ Churchill Avenu a Street @ Rancho Road gton Beach a Street @ Bolsa Avenue a Street @ Argosy Avenue a Street @ McFadden Ave a Street @ Robinwood Driv a Street @ Edinger Avenue a Street @ Heil Avenue a Street @ Pearce Drive	nue ve
	9. Bolsa Chica Street @	Old Bolsa Chica Road	4 4	Street @ Warner Avenue	
	10. Bolsa Chica Street (

SECTION 2: LEF	DAGENCY
X City of	Huntington Beach will be the lead agency
County of Ora	nge will be the lead agency
Please note (OCTA will not be leading projects for this Call for Projects.
	a 🗻
	project is regionally significant: eet / Valley View Street is a major north-south arterial in western Orange County. The
and State Route	passing this proposed project provides a primary access route between Interstate 405 22 with the beach communities to the south and the cities of Garden Grove, Cypress to the north. Average daily traffic volumes near the freeways exceed 50,000 vehicles

SECTION 3: RESOLUTIONS OF SUPPORT

Attached are resolutions of support from the Cities of Huntington Beach, Garden Grove and Westminster which were approved by their City Councils on December 16, 2019, November 26, 2019 and January 15, 2020 respectively. A letter of support is included for Caltrans, who will not be a part of any cooperative agreement.

RESOLUTION NO. 2019-74

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF HUNTINGTON BEACH APPROVING THE SUBMITTAL OF AN IMPROVEMENT PROJECT TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPREHENSIVE TRANSPORTATION FUNDING PROGRAM

WHEREAS, the Orange County Transportation Authority intends to allocate funds for transportation improvements within the incorporated cities and the County; and

The Measure M2 Regional Traffic Signal Synchronization Program targets over 2,000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow, and reduce congestion across jurisdictions; and

The City of Huntington Beach has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2; and

The City of Huntington Beach must include all projects funded by Net Revenues in the seven-year Capital Improvement Program as part of the Renewed Measure M Ordinance eligibility requirement; and

The City of Huntington Beach authorizes a formal amendment to the seven-year Capital Improvement Program to add projects approved for funding upon approval from the Orange County Transportation Authority Board of Directors; and

The City of Huntington Beach has currently adopted a Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' efforts to synchronize traffic signals across local agencies' boundaries; and

The City Council of the City of Huntington Beach desires to implement the multijurisdictional signal synchronization listed herein; and

The City's Circulation Element is consistent with the County of Orange Master Plan of Arterial Highways; and

The City of Huntington Beach will provide matching funds for the project as required by the Orange County Comprehensive Transportation Program Procedures Manual; and

The City of Huntington Beach will not use Renewed Measure M funds to supplant Developer Fees or other commitments,

NOW, THEREFORE, the City Council of the City of Huntington Beach does hereby resolve as follows:

The City Council of the City of Huntington Beach hereby requests the Orange County. Transportation Authority to allocate funds in the amounts specified in the City's application for the Comprehensive Transportation Funding Program. Said funds shall be matched by funds from the City as required and shall be used as supplemental funding to aid the City in signal synchronization along the following streets:

Bolsa Chica Street

PASSED AND ADOPTED by the City Council of the City of Huntington Beach at a regular meeting thereof held on the 16th day of December 2019.

REVIEWED AND APPROVED

City Manager

APPROVED AS TO FERM

City Attorney M

INITIATED AND APPROVED:

Director of Public Works

STATE OF CALIFORNIA
COUNTY OF ORANGE) ss
CITY OF HUNTINGTON BEACH)

I, ROBIN ESTANISLAU, the duly elected, qualified City Clerk of the City of Huntington Beach, and ex-officio Clerk of the City Council of said City, do hereby certify that the whole number of members of the City Council of the City of Huntington Beach is seven; that the foregoing resolution was passed and adopted by the affirmative vote of at least a majority of all the members of said City Council at a Regular meeting thereof held on December 16, 2019 by the following vote:

AYES:

Brenden; Carr, Semeta, Peterson, Delgleize, Hardy

NOES:

None

ABSENT:

Posey

RECUSE:

None

City Clerk and ex-officio Clerk of the City Council of the City of Huntington Beach, California

GARDEN GROVE CITY COUNCIL

RESOLUTION NO. 9595-19

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE
APPROVING THE SUBMITTAL OF VALLEY VIEW STREET/BOLSA CHICA STREET
TRAFFIC SIGNAL SYNCHRONIZATION IMPROVEMENT PROJECT TO THE ORANGE
COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER THE COMPETITIVE
MEASURE M2 REGIONAL TRAFFIC SIGNAL SYNCHRONIZATION PROGRAM

WHEREAS, the City of Garden Grove desires to Implement transportation Improvements listed below;

WHEREAS, the Measure M2 Regional Traffic Signal Synchronization Program targets over 2000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow, and reduce congestion across jurisdictions;

WHEREAS, the City of Garden Grove has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2;

WHEREAS, the City must include all projects funded by Net Revenues in the seven-year Capital Improvements Program as part of the Renewed Measure M Ordinance eligibility requirement;

WHEREAS, the City authorizes a formal amendment to the seven-year Capital Improvement program to add projects approved for funding upon approval from the Orange County Transportation Authority;

WHEREAS, the City of Garden Grove has a currently adopted a Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' efforts to synchronizing traffic signals across local agencies' boundaries;

WHEREAS, the City of Garden Grove will provide matching funds for each project as required by the Orange County Comprehensive Transportation Funding Programs Procedures Manual:

WHEREAS, the City of Garden Grove will not use Measure M funds to supplant Developer Fees or other commitments; and

WHEREAS, the City of Garden Grove desires to implement multi-jurisdictional signal synchronization listed below.

NOW THEREFORE BE IT RESOLVED, that the City Council of the City of Garden Grove does hereby request the Orange County Transportation Authority allocate funds in the amounts specified in the City's application to said City from the

Garden Grove City Council Resolution No. 9595-19 Page 2

Regional Traffic Signal Synchronization Program. Said funds, if approved, shall be matched by funds from said City as required, and shall be used as supplemental funding to aid the City if signal synchronization along the following street:

1. Valley View Street/Bolsa Chica Street

Adopted this 26th day of November 2019	Adopted	this 26th	day of	November	2019
--	---------	-----------	--------	----------	------

ATTEST:

/s/ STEVEN R. JONES
MAYOR

/s/ TERESA POMEROY, CMC CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF ORANGE) SS:
CITY OF GARDEN GROVE)

I, TERESA POMEROY, City Clerk of the City of Garden Grove, do hereby certify that the foregoing Resolution was duly adopted by the City Council of the City of Garden Grove, California, at a meeting held on November 26, 2019, by the following vote:

AYES:

COUNCIL MEMBERS:

(7) BRIETIGAM, O'NEILL, NGUYEN T., BUI KLOPFENSTEIN, NGUYEN K., JONES

NOES:

COUNCIL MEMBERS:

0) NONE

ABSENT: COUNCIL MEMBERS:

(0) NONE

/s/ TERESA POMEROY, CMC · CITY CLERK

RESOLUTION NO. 4977

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF WESTMINSTER APPROVING THE SUBMITTAL OF VALLEY VIEW STREET/BOLSA CHICA STREET TRAFFIC SIGNAL SYNCHRONIZATION IMPROVEMENT PROJECT TO THE ORANGE COUNTY TRANSPORTATION AUTHORITY FOR FUNDING UNDER COMPETITIVE MEASURE M2 REGIONAL TRANSPORTATION SIGNAL SYNCHRONIZATION **PROGRAM**

WHEREAS, the City of Westminster desires to implement transportation improvements listed below; and

WHEREAS, the Measure M2 Regional Traffic Signal Synchronization Program targets over 2000 signalized intersections across Orange County to maintain traffic signal synchronization, improve traffic flow, and reduce congestion across jurisdictions; and

WHEREAS, the City of Westminster has been declared by the Orange County Transportation Authority to meet the eligibility requirements to receive revenues as part of Measure M2; and

WHEREAS, the City must include all projects funded by Net Revenues in the sevenyear Capital Improvements Program as part of the Renewed Measure M Ordinance eligibility requirement; and

WHEREAS, the City authorizes a formal amendment to the seven-year Capital Improvement program to add projects approved for funding upon approval from the Orange County Transportation Authority; and

WHEREAS, the City of Westminster has a currently adopted a Local Signal Synchronization Plan consistent with the Regional Traffic Signal Synchronization Master Plan as a key component of local agencies' efforts to synchronizing traffic signals across local agencies' boundaries; and

WHEREAS, the City of Westminster will provide matching funds for each project as required by the Orange County Comprehensive Transportation Funding Programs Procedures Manual; and

WHEREAS, the City of Westminster will not use Measure M funds to supplant Developer Fees or other commitments; and

WHEREAS, the City of Westminster desires to implement multi-jurisdictional signal synchronization listed below.

NOW, THEREFORE, BE IT RESOLVED THAT, the Mayor of City Council of the City of Westminster hereby requests the Orange County Transportation Authority allocate funds in the amounts specified in the City's application to said City from the Regional Transportation Signal Synchronization Program. Said funds, if approved, shall be matched by funds from said City as required, and shall be used to supplement funding to aid the implementation of signal synchronization along the following street:

Valley View Street/Bolsa Chica Street

PASSED, APPROVED, and ADOPTED this 15th day of January 2020, by the following vote:

AYES:

COUNCIL MEMBERS:

TA, HO, CONTRERAS, DO, NGUYEN

NOES:

COUNCIL MEMBERS:

NONE

ABSENT: COUNCIL MÉMBERS:

NONE

TRI TA, MAYOR

ATTEST:

CHRISTINE CORDON, CITY CLERK

APPROVED AS TO FORM:

RICHARD D. JONES, CITY ATTORNEY

STATE OF CALIFORNIA) COUNTY OF ORANGE) ss. CITY OF WESTMINSTER)

I, CHRISTINE CORDON, hereby certify that I am the duly appointed City Clerk of the City of Westminster and that the foregoing resolution was duly adopted at a regular meeting of the City Council of the City of Westminster held on the 15th day of January 2020.

Christine Cordon, City Clerk

DEPARTMENT OF TRANSPORTATION

DISTRICT 12
1750 EAST 1TH STREET, SUITE 100
SANTA ANA CA 92705
PHONE (657) 328-6300
FAX (657) 328-6510
TTY 711
www.doc.ea/gov



December 19, 2019

William F. Janusz, P.E., PTOE Principal Civil Engineer City of Huntington Beach 2000 Main Street, P.O. Box 190 Huntington Beach, CA 92648

Subject:

Letter of Support for the Regional Traffic Signal Synchronization Application – Valley View Street/Bolsa Chica Street Corridor

Dear Mr. Janusz:

The Orange County Transportation Authority recently issued the 2020 Comprehensive Transportation Funding Program Call for Projects for Regional Traffic Signal Synchronization Program to coordinate traffic signals across jurisdictional boundaries in the County.

The State of California Department of Transportation (Caltrans) is in support of the City of Huntington Beach's submittal of the CTFP application to OCTA for signal synchronization on Valley View Street/Bolsa Chica Street between the intersection of Chapman Avenue in Garden Grove to Warner Avenue in Huntington Beach with three Caltrans traffic signals in between — Valley View Street and Tiffany Avenue, Valley View Street at the WB SR-22 Ramps, and Bolsa Chica Street and Garden Grove Boulevard (EB SR-22 Ramps).

If you have any questions or require additional information, please contact Mr. Denny Ngo at (949) 936-3512 or by email at Denny.Ngo@dot.ca.gov,

Sincerely,

Shivinderjit Singh, MS, PE, PMP Branch Chief, Electrical Systems

ITS, New Technology, TMS Support & Traffic Signals .

Division of Traffic Operations and Maintenance

TMC District 12, Caltrans,

SECTION 4: PRELIMINARY PLANS FOR THE PROJECT

Primary Implementation (PI)

The Primary Implementation phase will last approximately one year and include the following elements:

Task 1: Project Administration

The City of Huntington Beach will lead and administer the project on a daily basis using a consulting engineering firm (hereafter referred to as PROJECT CONSULTANT) to optimize signal synchronization timing along the Valley View Street / Bolsa Chica Street corridor. Other participants in the project are the Cities of Garden Grove and Westminster along with Caltrans (the project team). The City of Huntington Beach staff shall perform normal day to day project administration duties. Local agency staff will perform local project administration duties. Project budget shall include time and funding for agency outreach, development and execution of cooperative agreements and administering both in-kind and cash matches. As Caltrans is not a financial participant in this project, work at the three Caltrans intersections will be limited to coordination timing efforts. At the conclusion of the timing efforts, these timings will be provided to Caltrans who will decide whether or not to implement the timing. No cooperative agreements will be executed between Caltrans and the local agencies.

PROJECT CONSULTANT selection will conform with the City of Huntington Beach's procedures for consulant selection for professional services contracts. This includes publishing a Request for Proposals (RFP) on the City's website, ranking the proposals utilizing City staff and representatives from Westminster and Garden Grove, conducting interviews, negotiating with the top ranked firm and finally recommending one firm for contract award to the Huntington Beach City Council.

The engineering design consultant (DESIGN CONSULTANT) for the design of improvements will be under a separate contract from the engineering firm undertaking the coordination anyalsis (PROJECT CONSULTANT). Each agency will contract seperately with an engineering consultant for the design of improvements and seperately contract with a construction contractor to construct the improvements.

Task 2: Data Collection

The PROJECT CONSULTANT will collect data necessary to thoroughly understand existing traffic conditions in the study area and be able to develop optimal time-of-day traffic signal coordination plans, if applicable. This includes 24-hour counts along the corridor in the AM, Midday and PM periods along with midday on a weekend. Travel time analyses will also be performed for both the before and after project condition.

Task 3: Field Review and Plans Specifications, and Estimates

Each agency will contract seperately with a DESIGN CONSULTANT to design the improvements for this project within their jurisdiction. This includes fiber optic communications, installation of CCTV cameras, changeout of some of the existing controllers and other controller modifications. Each city's DESIGN CONSULTANT will review the geometric layout, existing traffic signal equipment, and signal synchronization related infrastructure to identify any deficiencies for each intersection and within the city.

Improvement plans and specifications will be prepared seperately for each city and each City will be responsible for procuring a construction contractor. With permission of the local AGENCIES, the DESIGN CONSULTANTS shall inspect the interior of each traffic control cabinet, inspect the telemetry systems and determine their respective condition and make recommendations for equipment upgrades. The following is a summary of the proposed improvements. See Attachment B for more details and cost estimates.

City of Huntington Beach - The City of Huntington Beach will be installing approximately one and one-half mile of fiber optic cable in existing conduit from Rancho Road to Edinger Avenue. This will replace the existing twisted pair copper interconnect cable. The existing 170 controllers will be changed out to 2070 ATC controllers. The fiber optic cable will connect to a fiber optic hub which will be constructed at the intersection of Bolsa Chica Street and Edinger Avenue under the Edinger Avenue TSSP project which is being administered by OCTA (fiber optic cable will be installed from Edinger Avenue to Warner Avenue as part of the Edinger Avenue TSSP project). New CCTV cameras will be installed at four locations within the city (the budget includes three additional licenses for the City's Aviglion video software). Although the existing conduit is currently serviceable for the twisted pair cable, an allowance is included in the budget for pull box replacement and conduit installation should the existing conduit and pullboxes be found to be unable to accomodate the fiber optic cable.

City of Garden Grove - Work in the City of Garden Grove consists primarily of replacing the existing controlllers and cabinets along with rewiring the intersections. There is also the installation of APS pedestrian push buttons and CCTV cameras at some locations. The traffic signals on Valley View Street in Garden Grove have old individual signal wires in old conduits. The conduits are currently full and cannot accomodate any additional wiring for additional equipment such as video detection cameras. To increase available capacity, it is proposed to replace the individual traffic signal conductors with traffic signal conductor cable. The new conductor cable will provide the capacity to accomodate the additional equipment proposed for this intersection. Similiar rewiring was included in the Brookhurst Street TSSP project. The City is also proposing the replacement of existing pull boxes as part of the rewiring effort. Considering the age and condition of the pull boxes, they will likely not be servicible after the rewiring activity. Upgrades will also be made to the City's Traffic Management center including the addition of Layer III switches, uninterruptible power supply and video management software.

City of Westminster - Work within the City of Westminster will consist primarily of rewiring intersections along with the installation of CCTV Cameras, video detection systems, battery back-up systems and ethernet switches. The need for rewiring the intersections is realted to the age and reliability of the existing conductors.

Task 4: Corridor "Before" Study

The PROJECT CONSULTANT will conduct "before" floating car travel runs prior to timing implementation. The PROJECT CONSULTANT will conduct a 'Before' field study report representative of the times and days for which synchronization plans will be developed. The report shall identify Measures of Effectiveness (MOE) to evaluate the effects of the synchronization plans. MOE's will likely include traffic flow, travel time, average speed, number of stops per mile, number of intersections traversed on green vs. stopped by red (Greens per Red) (note: Average Speed, Stops per Mile, and Greens per Red are the new OCTA MOE, Corridor Synchronization Performance Index (CSPI)), fuel consumption reduction, pollution reduction, and other pertinent items.

Task 5: Signal Timing Optimization and Implementation

Synchronization will be inter-jurisdictional in nature. All existing traffic patterns, flows, and conditions will be taken into account. Synchronized timing will be developed for the AM Peak, PM Peak, Mid-day Peak and Weekend Peak. Special generators such as schools and businesses along with cross street traffic will be considered as part of the project. Timing plans will be developed that assist traffic in getting to its destination without regard to physical or jurisdictional boundaries. Implementation will include the system integration (including graphics) with the Huntington Beach Transparity system.

Task 6: Corridor "After" Study

The PROJECT CONSULTANT will conduct "after" floating car travel runs after timing implementation. The Consultant will conduct an 'After' field study representative of the times and days for which synchronization plans will be developed. The 'After' study must be conducted in the same manner and contain the same MOE's as the 'Before' study in order to evaluate the improvements of the synchronization plans. MOE's should be compiled for the optimized corridor using the floating car method.

Task 7: Synchronization System Construction

Each agency will issue separate construction contracts for work within their jurisdiction. The City of Huntington Beach will utilize the DESIGN CONSULTANT prepared plans and specifications to advertise the project for sealed contractor bids utilizing the City of Huntington Beach's adopted procedures for bidding public works construction projects. The Cites of Westminster and Garden Grove will issue construction contracts in compliance with their individual city's practices and policies.

The DESIGN CONSULTANTS' contracts will include construction support and communications implementation. The DESIGN CONSULTANTS and construction contractors will be overseen by the individual agency staff. Construction inspection will be the responsibility of each individual agency. All installations and upgrades will be per the owning agencies' standards. Details of equipment upgrades are tabulated in Tables I and II.

The cooperative agreements between the cities will include language to ensure conformance with the schedule set by OCTA.

Task 8: Primary Implementation Project Report

The PROJECT CONSULTANT will develop a before and after study for the project. This report will be completed after the Primary Implementation is completed and will include the following:

- Introduction/project description: a summary of the project including the purpose, background, and objectives of the project.
- Data collection: a summary of the data collected as part of the effort including the traffic counts, phasing, lane configurations, etc.
- Traffic signal systems improvements: a summary of the implemented traffic signal systems improvements by city.
- Signal timing optimization: a summary of the development and implementation of updated signal timing including the models, selected cycle lengths, intersection groupings, etc.

- Results: the study will contain directional morning, mid-day, evening, and weekend peak periods
 using travel times, average speeds, green lights to red lights, stops per mile, and the derived corridor
 synchronization performance index (CSPI) metric. This information shall be collected both before and
 after any signal timing changes have been made. Additional details based on the Final Report
 Template will also be included.
- Benefits to cost analysis: project benefits resulting from signal synchronization will be evaluated based on the before and after study results. Savings will be calculated for travel time, fuel consumptions, vehicle maintenance, Greenhouse Gas (GHG) reduction, and a final benefit cost ratio.
- Future signal corridor improvements: recommendations for system and equipment enhancements to improve traffic flow and signal synchronization will be provided.
- · Conclusion: a summary of the before and after study and its findings.

Task 9: On-going Maintenance & Operations

The PROJECT CONSULTANT will provide "on-call" signal timing support services for a period of two years or 24 months following the completion of the primary implementation tasks (Tasks 5 through 8), to address any future adjustments that may be needed during this period. Depending on the nature of the adjustment, the PROJECT CONSULTANT may accomplish the fine-tuning adjustments remotely from the office through the traffic management systems. During this 24-month period the PROJECT CONSULTANT will be prepared to review any project intersection requested within (24) hours of written notice, including observing and fine-tuning the signal timing. The PROJECT CONSULTANT will also assist with resolving detection issues along the corridor.

The PROJECT CONSULTANT will drive the length of the project arterial during all designated corridor synchronization timing plan hours of operation on a monthly basis in order to verify that the synchronization timing is working as designed, and complete any necessary adjustments. Monthly driving times will consist of a full 12-hour weekday and a 4-hour Saturday. All drives shall be documented. A copy, limited to jurisdictional boundaries, shall also be sent to each agency.

At the end of the 2-year O&M phase, the PROJECT CONSULTANT shall prepare a memorandum to summarize the O&M phase. It should, at the minimum, include when travel runs were conducted, issues and solutions throughout the phase, and recommendations for future improvements.

SECTION 5: FUNDING NEEDS / COSTS FOR PROPOSED PROJECT BY TASK

Primary Implementation

The Primary Implementation will last one year and include the following elements (See Table I and Table II). INSTRUCTIONS: Be sure to carefully review improvements that may need engineering design or develoment of specifications prior to construction. For example, the interconnect conduit installation, new service locations, or cabinet foundations. Include this cost in your estimate. Costs associated with Caltrans fees, SCE fees, and/or special inspection requirements should also be included. Even though Caltrans is not a participant, costs associated with Tasks 2, 4, 5, and 6 shall also be included for Caltrans intersections.

Project Tasks	Cost / Int	١.	Total Cost	Mat	ch	31.413-1
	OOSt 7 IIIL		TOTAL COST	Cash	11	n-Kind
Task 1: Project Administration (a)	\$2,340.91	\$	51,500.00	\$ 7,154	\$	3,146
Task 2: Data Collection	\$ 850.00	\$	18,700.00	\$ 3,740	\$	
Task 3: Field Review and Plans Specifications, and Estimates	\$ -	\$	137,300.00	\$ 27,460	\$	
Task 4: Corridor "Before" Study	\$ 500.00	\$	11,000.00	\$ 2,200	\$	_
Task 5: Signal Timing Optimization and Implementation	\$4,650.00	\$	102,300.00	\$ 20,460	\$	-
Task 6: Corridor "After" Study	\$ 500.00	\$	11,000.00	\$ 2,200	\$	-
Task 7: Synchronization System Construction (See Table II)	-	\$	1,465,000.00	\$ 209,840	\$	83,160
Task 8: Primary Implementation Project Report	\$ 500.00	\$	11,000.00	\$ 2,200	\$	
Task 9: Ongoing Operations & Maintenance (See Task 9 Det	\$2,400.00	\$	52,800.00	\$ 10,560	\$	-
Total P	roject Cost:	\$ 1	,860,600.00	\$ 285,814	\$	86,306

⁽a) Project Administration is \$2,000 per local agency intersection and \$4,500 per Caltrans intersection.

Ongoing Operations & Maintenance

Ongoing Operations and Maintenance will last two years and include the following elements. (See Task 9 Details):

Task 9 Details:

Task	Description of Work	Unit Price / Intersection	# of signals	Cost
Project Administration	Day to day administrative duties during O&M	[海原的海道]	生物的技术。所	included
Monitoring and improving optimized signal timing	Drive monthly and improve timing parameters along 22 signals for 24 months after signal timing and implemented along Valley View / Bolsa Chica from Chapman to Warner	\$1,680.00	22	\$36,960
Communications and detection support	Monitor, maintain, and repair communication and detection along for 22 signals for 24 months after signal timing is implemented along Valley View / Bolsa Chica from Chapman to Warner (@\$30/signal/month)	\$720.00	22	\$15,840
OMM Memorandum	A memorandum to summarize the O&M phase, including details on when travel runs were conducted; issues and solutions throughout the phase; and recommendations for future improvements.			included
	Proposed Onging	Operations & Ma	intenance:	\$52,800

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

	Total	
Total M2 Request:	\$1,488,480.00	
Total Agency Match:	\$372,120.00	
Total Project Cost:	\$1,860,600.00	

Γ		05				T	Τ	T	Т	T	T	T	T	T	Τ	Ī	T	Т	T	Т	Τ	Т	Τ	Т	Т	Т	Τ
	1	RAFFIC	ovol 1	Service and	ľ	1	1	1	1	1	1	1	1	1	1	L	1	1	1	1	1	1	ļ	ļ	1	1	1
		VANCED TRAF AGEMENT SYS	Squesquing History	1	,	4						l				l			l	l	l	l		١	1		
		1.93	System Gregory			T	Ī	T	T	T	Ī	T	T	Ī	T	Ī	T	Ī	Ī	T	×		×	×	×	·	
		17 ad 3	Coll Modern	0.00	-	╁	t	┢	t	t	ŀ	t	┢	1	1	ŀ	┢	f	ŀ	ŀ	t	t	ŀ	\vdash	t	╁	t
	逐音		The second second	3	L	+	1	ļ	ļ	1	╀	1	L	ŀ	ł	L	╀	╀	ļ	ļ	ŀ	1	L	ļ	ļ	ļ	L
	TE CO		Four broisers fract golding	A STATE OF	L			L							L			L		×	×	×	×			L	
i	が変え	ÿ	ricand Temed 3 dobug had had h	1					×	×				×	×	×	×	×	×	×	×	×	×			Γ	
	No.	85	(UCT-) No.U no.bushva.ed 1ed-	1	t	t	T	t	t	t	t	t	t	t	t	t	t	t	t	Ļ	×	×	×	t	t	t	H
		WICATION	The old the second	6	+	+	-	ŀ	╀	H	H	╀	╀	H	H	ŀ	ŀ	ŀ	ŀ	╀	-	╀	H	H	H	╀	H
		MON	Later Carlot March Carlot	177	L	L	L	L	L		L	L	L	L	L	L	L	L	L	ľ	×	×	×	×	L	L	
i		8	Fort in New Condox	NATION.				l	l			١	ļ							١							
			位於10年。69年,616人中國 salter	25.00		×	×	×	×	×		T			Γ			Ī		×	×	×	×	×	Γ	Ī	П
			CCTV Camera edit Philos and Spice Excessed	1	t	×	1	1	×	\ \ \	+	\dagger	+	,	×	×	,	,	×	×	H	×	+	-	-	+	,
	Monk	4544 7.414		20 mg/m	L	F	L	ŀ	F		-	ŀ	H			ľ	-	L	F	F	-	-	L		F	1	
	Sell Sell		INU ent heart absented			L				L	L				L		L				L		L				Ц
	driphon	Z W	Advance Delection Loop with	100		l			١														100				
	PC.	LERCAB	Color ideased makes	15	Γ		Γ	Ī	T		Ī	T	Ī				Ī	Ī	r	Ī					Γ	Γ	П
	THE SE	CONTROLL	(Undepuno) Sociote mineri)	1.	+	t	-	H	H	H	H	H	H	-	-	100	-	H	-	H	-	-	-	-	\vdash	\vdash	Н
		_8	Hew Cochine	1	ŀ	H	L	ļ.	H	H	L	ŀ	L	L	L	L	L	L	L	L	L	L		L	L	L	Н
		S	New Countries	1	L	×	×	×	×	×					L			L	L		L					L	Ц
	美元	394	9040 Cable	6	1																						
		CONTRO	New Controler	in the	Ī	×	×	×	×	×		Ī		×	×	×	×	×	×	×	×	×	×	×	×	×	×
		1 1 1 1		17.	-	H	H	H	H	-	-	\vdash	Н	L	Н	-	\vdash	H	H	H	-	Н		_	H	H	Н
			Pedes Han Countlown Heads	A Just	-	L	_	_	-	_	_	_	Ц	_	_		_	_	L	L	_	Н	_		Н	L	\vdash
	を		Your Purk backon Assembly	100		×	×	×	×	×			Ц				- 7							100000			
	1	ECTION	849	A Comme													1000000										
	逐落	NTERSECTION	. s4∩	Arthur JES	×			-	Г		T		П							Ī	1				П	П	П
	建设	. X.		1.		H		-	-	-	H	H	-				•						-	-	Н	Н	\forall
	FEET		Mater Coboded Dably	177.23	×	L		L		L	L	L	Ц	×	×	×	×	×	×								
	1	1. t	EVP (al directions)	Cartherin													2000							1000			
				Wat I								XIT				OIL PROPERTY.		30									
ENT	100			1			,				Sections	-WY E	37.0	A RO		9				The second							
/EMI		da enol	Project Intersec	15 4 × 43 4		N.	NON	AVE	y	AVE	ш	SOVE	SOVE	CHIC	NAVE	ER BL	ARK	AVE			ω	AVE	ODR	Ų			Ę
SKO	100		Pydjáck (nineseon) (andeseon) (andeseon) (andeseon)	40.00		CHAPMAN AVE	CINEMA MAIN DWY	BELGRAVE AVE	LAMPSON AVE	CERULEAN AVE	Y AV	GARDEN GROVE FWY EXI	GARDEN GROVE BLVD	OLD BOLSA CHICA RD	DUNCANNON AVE	WESTMINSTER BLVD	ST JAMES PARK	CHURCHILL AVE	RANCHO RD	AAVE	SYAV	ODEN	ROBINWOOD DR	ER AI	NE.	CE OR	ER A
IME	1000年			Street	TMC	CHAP	CINEN	BELGA	AMP	CERU	TIFFA	GARD	GARD	OLO B	DCINC	WEST	STJA	CHUR	RANC	BOLSA AVE	ARGO	MCFA	ROBIN	EDING	HEIL A	PEARCE OR	WARN
ABLE I: SUMMARY OF IMPROVEMENTS			Location	Valley. Maw Street. Bolta Chica Street at the street was seen and a special street.			-			Í	-	Ť	٦		,					CH	HUNTINGTON BEACH JARGOSY AVE	HUNTINGTON BEACH IMCFADDEN AVE	H	HUNTINGTON BEACH JEDINGER AVE	HUNTINGTON BEACH HEIL AVE	H	HUNTINGTON BEACH WARNER AVE
MAR	等 馬			Bolte	OVE	OVE.	SOVE	SOVE	SOVE	COVE				E	ER	ER	띪	ER	ER	HUNTINGTON BEACH	N BEA	N BEA	HUNTINGTON BEACH	N BEA	N BEA	HUNTINGTON BEACH	N BEA
SUM	使		10 10 10 10 10 10 10 10 10 10 10 10 10 1	Troot.	GARDEN GROVE	ENG	EN G	EN GF	GARDEN GROVE	GARDEN GROVE	SANS	SANS	SANS	MINS	MINS	MINS	MINS	MINS	MINS	NGTC	NGTC	NGTC	NGTC	NGTC	NGTC	NGTC	NGTC
EE	-			New S	GARD	GARDEN GROVE	GARDEN GROVE	GARDEN GROVE	GARD	GARD	CALTRANS	CALTRANS	CALT	WESTMINSTER	WESTMINSTER	WESTMINSTER	WESTMINSTER	WESTMINSTER	WEST	EN L	5	HCM	5	ENST.	5	HCN	HON
ABL	6		Location	miley.		П	П	3	4		9	7		7	7	٦	- 1	- 1	1	П	٦	٦	1	1	٦		22
<u> _ </u>	A.F.	e reacting to	PARTICIPATION OF THE PARTY.	>	Ц	Ц	Ц	ш	Ц	L		Ц	_1		_1		_1		_1	_1	_1	_1	_	1	1		L

TABLE II: DETAILED IMPROVEMENTS BREAKDOWN

TMC TMC Uborade TMC UPS Chapman Avenue Emils & install controller Chapman Avenue Emils & install controller Emils & install controller Chapman Avenue Emils & install controller Emils & install controller Emils & install controller Temils & i		Unit	G G	Labor to Install	Equipment	Total	Cash Match	In-Kind Match	Agancy
TMC Layer III Switches TMC - UPS TMC - UPS		LS.	1		5	5	3	5	Garden Gmye
TMC UPS TMC Video Manadement Software Furnish & Install controller Chapman Avenue Rewire Intersection (Teplace pullboxes) Furnish & Install CRY Camera Purnish & Install CRY Camera Furnish & Install CRY CAMERA		S	1 3	5.000.00	\$ 30,000,00	35 000 00	2 000 00	╀	Garden Control
TMC Video Management Software Furnish & Install Controller Chapman Avenue Rewire intersection (replace pullboxes) Furnish & Install CortV Camera Furnish & Install CortV Camera Furnish & Install CortV Camera Furnish & Install Controller Clinema Main Drivaway Rewire intersection (replace pullboxes) Furnish & Install Controller Rewire intersection (replace pullboxes) Furnish & Install Controller Lampson Avenue Rewire intersection (replace pullboxes) Furnish & Install Controller Cerulean Avenue Rewire intersection (replace pullboxes) Furnish & Install Controller Rewire Intersection (replace pullboxes) Furnish & Install COTV Camera Furnish & Install Controller unit Furnish & Install Controller unit Furnish & Install Controller or System Furnish & Install Controller F		5	5	1	2 130000			┿	Galden Grove
TMC Wideo Management Software Chapman Avenue Furnish & Install CCTV Camera Eurnish & Install CCTV Camera Furnish & Install CCT		5	t		L			+	Garden Grove
Chapman Avenue Rewire intersection (replace pullboxes) Furnish & Install CortV Camera Furnish & Install Ethernet Switch Furnish & Install Cort Controller unit Furnish & Install Cort Controller unit Furnish & Inst		, ,	1	200000	400000	42 000 00	200000	,	Garden Grove
Chapman Avenue Rewire intersection (replace pullboxes) Furnish & Install CCTV Camera Install City furnished cabinet foundation and service (Inema Main Driveway Rewire intersection (replace pullboxes) Furnish & Install Controller Rewire intersection (replace pullboxes) Furnish & Install Controller Lampson Avenue Rewire intersection (replace pullboxes) Furnish & Install Controller Rewire intersection (replace pullboxes) Furnish & Install COTV Camera Furnish & Install Ethernet Switch Furnish & Install COTV Camera Furnish & Install Ethernet Switch Furnish & Install COTV Camera Furnish & Install Ethernet Switch Fu		1	,	1	200000			26	Garden Grove
Chapman Avenue Cerulean Avenue Eumish & Install COTV Camera Furnish & Install COTV CAMERA			,	ľ	ľ	, .		4	Garden Grove
Clinena Main Drivoway Furnish & Install APS PPB Install City furnished cabinet, foundation and service furnish & Install City furnished cabinet, foundation and service furnish & Install Controller Belgrave Avonue Furnish & Install controller Furnish & Install Controller unit Furnish & Install Ethernet Switch Furnish & Install Etherne		3 1	? `	1	1	2		-	Garden Grove
Install City furnished cabinet foundation and service Furnish & install controller Cinema Main Driveway Rewire intersection (replace puliboxes) Rewire intersection (replace puliboxes) Furnish & install aCPS PPB Furnish & install controller Rewire intersection (replace puliboxes) Furnish & install controller Rewire intersection (replace puliboxes) Furnish & install controller Rewire intersection (replace puliboxes) Furnish & install CCTV Camera Furnish & install CCTV Camera Furnish & install Ethernet Switch Install City furnished cabinet and foundation Furnish & install CCTV Camera Furnish & install Store of Camera Furnish & install Ethernet Switch Furnish & install Ethernet Switch Furnish & install Ethernet Switch Furnish & install Store Ontroller unit Furnish & install Ethernet Switch Furnish & install Et		EA	1	1		10,000.00		,	Garden Grove
Cinema Main Drivoway Rumish & Install Corr Utiliate and Service Beigrave Avenue Furmish & Install Corr Utiliate and foundation and service Install City furnished cabinet, foundation and service Furnish & Install Corr Utiliate and foundation Furnish & Install Corr Camera Furn		S	5	١	\$ 6,000.00	10,000.00	\$ 2,000.00	,	Garden Grove
Cinema Main Drivoway Furnish & Install controller Rewire Intersection (Teplace pulboxes) Furnish & Install Controller Rewire Intersection (Teplace pulboxes) Furnish & Install Controller Furnish & Install COTV Camera Furnish & Install Step PPB Furnish & Install Step PP	ice	rs	4	2		\$ 24,000.00	\$ 4,800.00	,	Garden Grove
Rewire intersection (replace pullboxes) Furnish & install APS PPB Install City furnished cabinet, foundation and service Furnish & install controller Lampson Avenue Rewire intersection (replace pullboxes) Furnish & install controller Lampson Avenue Rewire intersection (replace pullboxes) Furnish & install Cotr O canera Furnish & install Ethernet Switch Furnish & install Cotr O canera Furnish & install Ethernet Switch F		2	-	1,000.00	\$ 5,000.00	v	\$ 1,200.00		Garden Grove
Fumish & install APS PPB Belgrave Avenue Belgrave Avenue Rewire intersection (replace pullboxes) Fumish & install COTV Camera		rs	-	12,000.00	\$ 10,000.00		\$ 4.400.00		Garden Groue
Belgrave Avenue Rewite intersection (repiace pullboxes) Furnish & install corroller Rewite intersection (repiace pullboxes) Furnish & install corroller Rewite intersection (repiace pullboxes) Furnish & install COTV Camera Furnish & install Sthemet Switch Furnish & install COTV Camera		ST	- 5	4,000.00		5		5	Gorden Grane
Furnish & Install controller	ice	LS	-	12	l.,		\$ 4 800 00	,	Carden Clove
Rewire intersection (replace pullboxes) Furnish & Install GNP PB Install CIV furnished cabinet and foundation Furnish & Install controller Rewire Intersection (replace pullboxes) Furnish & Install COTV Camera Furnish & Install Saltery Back-up System Furnish & Install Saltery B		EA	1 5	1	\$ 5,000.00			_	Carden Grove
Furnish & install APS PPB		S	1	٦	1	,	200000	,	California Grove
Install City furnished cabinet and foundation Furnish & install controller		5		1	l	40 000 00		,	Garden Grove
Furnish & Install confroller Lampson Avenue Rewire Intersection (replace pullboxes) Furnish & Install APS PPB Furnish & Install CVTV Camera Furnish & Install CTV Camera Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Saltery Battery Back-up System Furnish & Install Saltery Back-up System Furnis		200	-	ľ	I.			2	Garden Grove
Rewite intersection (replace pullboxes) Furnish & Install CCTV Camera Furnish & Install Ethernet Switch Furnish & Install Ethern			1.	1	, 0000	00'000'07	4,000.00	2	Garden Grove
Lampson Avenue Furnish & Install CTV Camera Rewire Intersection (replace pullboxes) Rewire Intersection (replace pullboxes) Furnish & Install CTV Camera Boulevard Furnish & Install Sthemet Switch Furnish & Install Sthemet Switch Furnish & Install Sthemet Switch Furnish & Install Stroy ATC controller unit Furnish & Install Stroy Back-up System Furnish & Instal		5	2 '	ľ	1			_	Garden Grove
Furnish & Install APS PDB Furnish & Install APS PDB Furnish & Install Ethernet Switch Install City furnished cabinet and foundation Furnish & Install CCTV Camera Rewire intersection (replace pullboxes) Furnish & Install CCTV Camera Furnish & Install CCTV Camera Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Story ATC controller unit Furnish & Install Story Back-up System Furnish & Install Ethernet Switch Rewire Intersection (existing conduit at capacity) Rewire Intersection (existing conduit at capacity) Furnish & Install Surdow Dotection - Iterit Vantage Ed Furnish & Install Surdow Dotection - Iterit Vantage Ed Furnish & Install Surdow Controller unit		3 ;	1		20,000,00	\$ 22,000.00	\$ 4,400.00	-	Garden Grove
Furnish & Install Ethernet Switch Install City Untal Sed and Parts Switch Install City Untal Sed cabinet and foundation Furnish & Install Controller Cerulean Avenue Rewire intersection (replace pullboxes) Furnish & Install Ethernet Switch Tilfany Avenue Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install COTO Camera Furnish & Install COTO ATC controller unit Furnish & Install Ethernet Switch Furnish & Install Saltery Back-up System Furnish & Install Ethernet Switch Furnish & Install Suffor O ATC controller unit Furnish & Install Suffor Sources		5	5	1	-	4			Garden Grove
Turmish & Install Ethernet Switch Install City furnished cabinet and foundation Furnish & Install controller Cerulean Avenue Furnish & Install Control Camera Furnish & Install Cort Camera Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install SOTO ATC controller unit Furnish & Install Sot Sack-up System Furnish & Install Sot ATC controller unit		S	\$		-	S	2		Garden Grove
Install City fumished cabinet and foundation Fumish & Install Corrolled		2	5	-	\$ 3,000.00	\$ 4,000.00	\$ 800.00		Garden Grove
Cerulean Avenue Rewire Intersection (replace pullboxas) Furnish & Install COTV Camera Furnish & Install Ethernet Switch Tilfany Avenue SR-22 VB Ramps Garden Grove Boulevard Furnish & Install COTO ATC controller unit Furnish & Install COTV Camera Furnish & Install COTV Camera Furnish & Install Statey Back-up System Furnish & Install Statey Back-up System Furnish & Install Statey Back-up System Furnish & Install Statey Ganera Furnish & Install Sta		rs	2	2	٠ -	\$ 20,000,00	\$ 4,000.00	-	Garden Grove
Cerulean Avenue Furnish & Install Conforces pullboxes) Furnish & Install Conforces Furnish & Install Ethernet Switch Tilfany Avenue Furnish & Install Ethernet Switch SR-22 WB Ramps Garden Grove Furnish & Install COTO ATC controller unit Furnish & Install COTO ATC controller unit Furnish & Install COTO Camera Old Bolea Chica Road Furnish & Install Battery Back-up System Furnish & Install Stateny Back-up System Furnish & Install Stateny Back-up System Furnish & Install Suffor ATC controller unit Furnish & Install Suffor ATC controller unit Furnish & Install Suffor ATC controller unit Furnish & Install Suffor O ATC controller unit Furnish & Install Suffor Detection - Iterit Vantage Edimish & Install Suffor Detection - Iterit Vantage Edimish & Install Video Office Controller unit Furnish &		EA	1	1,000.00	\$ 5,000.00	\$ 6,000.00		_	Garden Grove
Furnish & Install CCTV Camera Furnish & Install CCTV Camera Furnish & Install Ethernet Switch SR-22 WB Ramps Garden Grove Boulevard Furnish & Install 2070 ATC controller unit Furnish & Install Settennet Switch Furnish & Install Settennet Switch Furnish & Install CCTV Camera Old Bolsa Chica Road Furnish & Install Ethernet Switch Furnish & Install Setten Setten Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Setten Setten		rs	1 5		\$ 10,000.00	\$		-	Garden Grove
Furnish & Install APS PPB Furnish & Install Ethernet Switch SR-22 WB Ramps Garden Grove Boulevard Furnish & Install 2070 ATC controller unit Furnish & Install 2070 ATC controller unit Furnish & Install Settery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iteris Vantage Ed Furnish & Install Settery Back-up System Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Ethernet Switch Furnish & Install Settery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed		EA	-		\$ 7,000.00	\$ 10,000.00	\$ 2,000,00		Garden Grove
Tiffany Avenue SR-22 WB Ramps Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install Soften System Furnish & install Stefany Back-up System Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed		LS	1 5		\$ 6,000.00	\$ 10,000.00		_	Garden Grove
SR-22 WB Ramps Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install Statey Back-up System Furnish & install Statey Savich Furnish & install Statey Gamera Furnish & install Video Detection - Iterite Vantage Ed		EA	4	1,000.00	\$ 3,000.00	\$ 4,000.00		-	Garden Grove
SR-22 WB Ramps Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install Betternet Switch Furnish & install Betternet Switch Furnish & install Betternet Switch Furnish & install Ethernet Switch Furnish & install 2070 ATC controller unit Furnish & install Steps Battery Back-up System Furnish & install Steps Detection - Iterife Varitage EG Furnish & install Video Detection - Iterife Varitage EG Furnish & install Video Detection - Iterife Varitage EG Furnish & install Video Detection - Iterife Varitage EG Furnish & install Video Detection - Iterife Varitage EG Furnish & install Video Detection - Iterife Varitage EG Furnish & install 2070 ATC Controller unit	- Proposition of the Party of t	-	5	•		· .		_	CALTRANS
SR-22 WB Ramps Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install Battery Back-up System Furnish & install Battery Back-up System Furnish & install Settery Back-up System Furnish & install Video Detection - Iteris Vantage Ed Furnish & Install Settery Back-up System Furnish & Install Settery Back-up System Furnish & Install Battery Back-up System Furnish & Install Battery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install CCTV Camera		_	1 5	•			,	,	CALTRANS
SR-22 WB Ramps Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install CCTV Camera Furnish & install Stateny Back-up System Furnish & install Ethernet Switch Furnish & install Ethernet Switch Furnish & install Stateny Back-up System Furnish & install Stateny Back-up System Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed Furnish & install Video Detection - Iterit Vantage Ed		-	7	•	5		5		CALTRANS
Garden Grove Boulevard Furnish & install 2070 ATC controller unit Furnish & install COTO Camera Old Bolsa Chica Road Furnish & install COTO Camera Furnish & install Statieny Back-up System Furnish & install Ethernet Switch Rewire Intersection (existing conduit at capacity) Rewire Intersection (existing conduit at capacity) Furnish & install Video Detection - Iterife Vantage EG Furnish & install Video Detection - Iterife Vantage EG Furnish & install Video Detection - Iterife Vantage EG Furnish & install Video Detection - Iterife Vantage EG Furnish & install Video Detection - Iterife Vantage EG Furnish & install Video Office Controller unit			1 5	•	5			5	CAL TRANS
Garden Grove Boulevard Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Carnera Old Bolsa Chica Road Furnish & Install Better Back-up System Furnish & Install Better Back-up System Furnish & Install Ethernet Switch Furnish & Install 2070 ATC controller unit Furnish & Install 2070 ATC controller unit Furnish & Install Saltery Back-up System Furnish & Install Battery Gamera Furnish & Install Battery Back-up System Fewire Intersection (existing conduit at capacity) Rewire Intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterife Vantage EG Furnish & Install Video Detection - Iterife Vantage EG Furnish & Install Video Detection - Iterife Vantage EG Furnish & Install Video Detection - Iterife Vantage EG Furnish & Install Video Controller unit			1 5	•	5		5	5	CALTRANS
Furnish & install 2070 ATC controller unit Furnish & Install CCTV Camera Old Bolsa Chica Road Furnish & Install Bettery Back-up System Furnish & Install Settery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iteris Vantage Ed Furnish & Install Settery Back-up System Furnish & Install Battery Back-up System Furnish & Install Battery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install CCTV Camera		L	2		5		5	5	CALTBANG
Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Camera Old Bolsa Chica Road Furnish & Install Battery Back-up System Furnish & Install Settery Back-up System Furnish & Install Video Detection - Iteris Vantage Edfumish & Install Video Detection - Iteris Vantage Edfumish & Install Video Detection - Iteris Vantage Edfumish & Install Settery Back-up System Furnish & Install Battery Back-up System Furnish & Install Ethernet Switch Rewire Intersection (Existing conduit at capacity) Furnish & Install Video Detection - Iterit Vantage Edfumish & Install Video Detection - Iterit Vantage Edfumish & Install Video Detection - Iterit Vantage Edfumish & Install CCTV Camera	100		5	•	5			5	CALTRANS
Furnish & install 2070 ATC controller unit Furnish & install COTO COT Camera Chica Road Furnish & install Stateny Back-up System Furnish & install Video Detection - Iterits Vantage Ed Furnish & install Stateny Back-up System Furnish & install Video Detection - Iterite Vantage Ed Furnish & install Video Detection - Iterite Vantage Ed Furnish & install Stateny Back-up System Furnish & install Video Detection - Iterite Vantage Ed Furnish & install Stateny Carnora			1 5	•	\$		5	5	CALTRANS
Clid Bolsa Chica Road Fumish & Install Bettery Back-up System Fumish & Install Bettery Back-up System Fumish & Install Ethernet Switch Fumish & Install IND ATC controller unit Fumish & Install IND ATC controller unit Fumish & Install Soft Of Off Controller unit Fumish & Install Battery Back-up System Fumish & Install Battery Back-up System Fumish & Install Battery Back-up System Rewire Intersection (existing conduit at capacity) Fumish & Install Video Detection - Iterite Vantage EG Fumish & Install Video Detection - Iterite Vantage EG Fumish & Install Video Detection - Iterite Vantage EG Fumish & Install Video Controller unit		EA	1 5	1,000.00	\$ 5,000.00	\$ 6,000.00	\$ 1,200,00	⊹	Westminster
Old Bolsa Chica Road Furnish & Install Battary Back-up System Furnish & Install Ethente Switch Furnish & Install Indeo Detection - Iteris Vantage Ed Furnish & Install INdeo Detection - Iteris Vantage Ed Furnish & Install CCTV Camera Purnish & Install Battery Back-up System Furnish & Install Ethent Switch Rewire Intersection (Eastsing conduit at capacity) Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Camera		LS.	1	2,000.00	\$ 10,000.00	\$ 12,000.00		-	Westminster
Furnish & Install Ethernet Switch Furnish & Install Video Detection - Iteris Vantage Ed Furnish & Install Video Detection - Iteris Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install Battery Back-up System Furnish & Install Ethernet Switch Rewire Internaction (existing conduit at capacity) Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install CCTV Camera	The second secon	EA	1 5	2,000.00	\$ 8,000.00			Ͱ	Westminster
Furnish & Install Video Detection - Iteris Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install 20TV Carnera Duncannon Avenue Furnish & Install Battery Back-up System Furnish & Install Ethernel Switch Rewire Intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterit Vantage Ed Furnish & Install COTO ATC controller unit Furnish & Install COTO ATC controller unit	-	EA	1 5		\$ 2,000.00	\$ 3,000.00		-	Westminster
Furnish & Install 2070 ATC controller unit Furnish & Install COTV Camera Duncannon Avenue Furnish & Install Battery Back-up System Furnish & Install Battery Back-up System Rewire Intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterite Vantage EG Furnish & Install OCTV Camera Furnish & Install COTV Camera	EdgeConnect	LS	4		\$ 22,000.00	\$ 25,000.00	\$ 5,000.00	,	Westminster
Furnish & Install CCTV Carnera Duncannon Avenue Furnish & Install Battery Back-up System Furnish & Install Ethernet Switch Rewire intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterite Vantage Ed Furnish & Install Video Detection - Iterite Vantage Ed Furnish & Install CCTV Carnera		ฐ	1 5		\$ 5,000.00	\$ 6,000.00	\$ 1,200.00	╌	Westminster
Duncannon Avenue Furnish & Install Battery Back-up System Furnish & Install Ethernet Switch Rewire Intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterite Vantage Ed Furnish & Install Video Detection - Iterite Vantage Ed Furnish & Install 2070 ATC controller unit		LS.	1 5	П	\$ 10,000.00	\$ 12,000.00		-	Westminster
Furnish & Install Ethernel Switch Rewire intersection (existing conduit at capacity) Furnish & Install Video Detection - Iterie Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Camera		ង	1 5		\$ 8,000.00	\$ 10,000.00		_	Westminster
Rewire intersection (existing conduit at capacity) Furnish & install Video Detection - Herie Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Camera		EA	2		\$ 2,000.00	\$		-	Westminster
Furnish & Install Video Detection – Heris Vantage Ed Furnish & Install 2070 ATC controller unit Furnish & Install CCTV Carnera	CONTRACTOR OF THE PERSON NAMED OF THE PERSON N	rs	1 5	20,000,00	\$ 2,000.00	s	\$ 4,400.00	8	Westminster
	EdgeConnect	-	4		\$ 22,000.00	\$ 25,000.00		⊢	Westminster
1		EA	1 5		\$ 5,000,00	\$ 6,000.00		⊢	Westminster
		LS	1 5		\$ 10,000.00	\$ 12,000.00		-	Westminster
Westminster Blvd Furnish & install Hub Ethernet Switch		4	4		"	.,	\$ 6,000.00	-	Westminster
45 Furnish & Install Ethernet Switch		EA	2	1,000.00	\$ 2,000.00	3,000.00		-	Westminster

	Illistan New Collidar (Intersection Crossings)	EA	2	12,000,00	3 2,000,00 3	-	\$ 2,800.00	2.00.	•	Westminster
	Furnish & install Video Detection - Iteris Vantage EdgeConnect	SJ	1 5	-	\$ 22,000.00 \$	25,000.00	\$ 5,000.00	\$ 00.0		Westminster
	Furnish & install 2070 ATC controller unit	EA	2	1,000.00	\$ 5,000.00 \$	6,000.00	5 1,200.00	\$ 00.0		Westminster
	Furnish & Install CCTV Camera	rs	1 5	2,000.00	\$ 10,000.00 \$		\$ 2,400.00	3.00.		Westminster
St James Park	Furnish & install Battery Back-up System	ฐ	1 5	2,000.00	\$ 8,000.00 \$	10,000.00		200.0	,	Westminster
	Furnish & install Ethernet Switch	₩	1 5		\$ 2,000.00 \$	3,000.00	\$ 600	\$ 00.00	,	Westminster
	Furnish & install Video Detection - Iteris Vantage EdgeConnect	LS	1 5	3,000.00	\$ 22,000.00 \$	25,000.00	\$ 5,000.00	\$ 00.0		Westminster
	Furnish & Install 2070 ATC controller unit	EA	1 5	1,000.00	\$ 5,000.00 \$	00.000,8	\$ 1,200.00	_	,	Westminster
	Furnish & install CCTV Camera	LS	1 5	2,000.00	\$ 10,000,00 \$	12,000.00	\$ 2,400.00	\$ 00.0		Westminster
Churchill Avenue	Furnish & install Battery Back-up System	EA	1 \$	2,000.00	\$ 8,000.00	-	\$ 2,000.00	2 00.0		Westminster
	Fumish & install Ethernet Switch	EA	1 5	-	\$ 2,000.00 \$			\$ 00.009		Westminster
	Furnish & Install Video Detection - Iteris Vantage EdgeConnect	LS	1 5	-	\$ 22,000.00 \$	25,000.00	\$ 5,000,00	\$ 000	٠	Westminster
	Furnish & Install 2070 ATC controller unit	EA	1 5	1,000.00	\$ 5,000.00 \$	6,000.00	\$ 1,200.00	\$ 000		Westminster
	Furnish & Install CCTV Camera	LS.	1 5	\vdash	\$ 10,000.00 \$	12,000.00	\$ 2,400.00	\$ 000		Westminster
Rancho Road	Furnish & install Battery Back-up System	EA	1 8	8,000.00	\$ 2,000.00 \$	10,000.00	\$ 2,000.00	\$ 00.0		Westminster
	Furnish & install Ethernet Switch	Ä		1,000.00	\$ 2,000,00 \$	3,000.00	\$ 60	\$ 00.000		Westminster
	Fumish & install Video Detection - Iteris Vantage EdgeConnect	SI	1	3,000.00	\$ 22,000.00 \$	25,000.00	\$ 5,000.00	\$ 00.0		Westminster
	Fumish & install 2070 ATC controller unit	Ę	4	-	ı	8,000.00		H		Huntington Beach
	Fumish & install CCTV Camera	EA	2	-	\$ 10,000.00 \$	12,000.00		⊢		Huntington Beach
	Furnish & install Fiber Distribtuion Unit, Splice Endosure, and SMFO-8 Draw Cable & enfector	ā	4	2,000.00	\$ 8,000.00		\$ 2,000.00	\$ 00.0		Hundington Beach
	Pul 100'96 SMFO cable in pullbox adjacent to Controller Cabinet	SJ	2	700.00	\$ 300.00	1,000.00	5 20	200.00	,	Huntington Beach
Bolsa Avenue	Furnish & install 96 SMFO cable (Rancho to Bolsa)	Н	2850 \$			26,500.00	5.	Н		Huntington Beach
	Furnish & install pullboxes (#6E) (Rancho to Bolsa)	4	6	2,500.00	\$ 1.500.00 \$	4,000.00	\$ 80	800.008		Huntington Beach
	Furnish & install pullboxes (#6) (Rancho to Boisa)	EA	8	8,000.00	\$ 1,500.00 \$	18,000.00	\$ 3,600.00	3.00.0		Huntington Beach
	Furnish & Install 2" conduit as replacement (Rancho to Bolsa)	LF 2	200 \$	10,000,00	\$ 5.00 \$	11,000.00		\$ 00.0		Huntington Beach
	Furnish & Install 2070 ATC controller unit	EA	1 5	2,000.00	\$ 6,000.00 \$	8,000.00	\$ 1,600.00	\$ 00.0		Huntington Beach
	Furnish & Install Fiber Distribtuion Unit, Splice Endosure, and SMFO-6 Drop Cable + spkcing	รา	1 5	2,000.00	\$ 8,000.00 \$	10,000.00	\$ 2,000.00	2.00	•	Huntington Beach
Argent Avenue	Furnish & install 96 SMFO cable (Bolsa to Argosy)	Н	1600 \$	_	\$ 3.00 \$,	\$ 3,200.00	\$ 00.0		Huntington Beach
ability feeds	Furnish & install pullboxes (#8E) (Bolsa to Argosy)	Ð	2	2,500.00	\$ 1,500.00 \$	4,000.00	\$ 804	800.00	-	Huntington Beach
	Furnish & install pullboxes (#6) (Bolsa to Argosy)	2	4	6,000.00	\$ 1,500.00 \$	12,000.00	\$ 2,400.00	\$ 00.0	ı	Huntington Beach
	Furnish & install 2" conduit as replacement (Bolsa to Argosy)	LF 2	200	10,000,00	\$ 5.00 \$	11,000.00	\$ 2,200.00	\$ 00.0		Huntington Beach
	Furnish & install 2070 ATC controller unit	EA I	2 +	\vdash		3,000.00	\$ 1,600.00	2 00.0		Huntington Beach
	Euroish & install CCTV Camera	EA	3	2,000,00	\$ 10,000,00 \$		\$ 2.40	000		Huntington Beach
		rs		2,000.00	\$ 8,000.00 \$	10,000.00	\$ 2,000.00	2.00	•	Huntington Beach
MCFadden Avenue	_	\dashv	1900 \$		\$ 3.00 \$	-	\$ 3,800.00	2 00'0		Huntington Beach
	Furnish & install pullboxes (#6E) (Argosy to McFadden)	EA	1 5	1,500.00	\$ 2,500.00 \$	4,000.00	S 80	800.00		Huntington Beach
<u>p</u> 22	Furnish & install pullboxes (#6) (Argosy to McFadden)	+	\forall	\dashv	\$ 1,500.00 \$	12,000.00	\$ 2,400.00	\$ 00.0		Huntington Beach
	Furnish & install 2" conduit as replacement (Argosy to McFadden)	<u>"</u>	200	10 000 00	2002	44 000 00	020000			11 - 11 - 11 - 11 - 11 - 11 - 11 - 11

84		Furnish & install 2070 ATC controller unit	2		4	\$ 00.000.9 \$	2	\$ 000000	8,000.00	5	1,600.00	4.	Honfington Breach
92		Furnish & install Fiber Distribituion Unit, Spire Enclosure, and SMFO-6 Drop Cable + solicing	LS.	-	4	8,000.00	14	\$ 00.000,	10,000.00	9	2,000.00		Huntington Beach
86	Ontine Control	Fumish & install 96 SMFO cable (McFadden to Robinwood)	17	2200	5	5,400.00	2	3.00	22,000.00	5	4,400.00	5	Huntington Beach
87	PAGE PROPERTY	Fumish & install pullboxes (#6E) (McFadden to Robinwood)	EA	-	\$	1,500.00	5	\$ 00.005.2	4,000.00	4	800.00	-	Huntington Beach
98		Fumish & install pullboxes (#6) (McFadden to Robinwood)	វ	vs	4	7,500.00	65	1,500.00 \$	15,000.00	65	3,000.00		Huntington Beach
68		Fumish & Install 2" conduit as replacement (McFadden to Robinwood)	T,	200	5	10,000.00	5	5.00 \$	11,000.00	5	2,200.00	3	Huntington Beach

8		Furnish & install 2070 ATC controller unit	EA		\$ 2,	2,000.00	\$ 6,000.00 \$	\$ 00.000.8		\$ 00.000		Huntington Reach
91		Fumish & install CCTV Camera	4	,	\$ 2,	2,000.00	\$ 10,000.00 \$	12,000.00	65	2,400.00		Huntington Beach
82		Furnish and install 96 SMFO cable into Hub Cabinet (Hub installed with Edinger TSSP Project)	S.	-	u	700.00	300.00	1,000.00	2	200.00	110	Huntington Beach
83	Edinger Avenue	Furnish & install 96 SMFO cable (Robinwood to Edinger)	Ę	1000	\$ 7,	7,000.00	3,00	10,000.00		2,000.00 \$		Huntington Beach
94		Furnish & install pullboxes (#6E) (Robinwood to Edinger)	EA	1	5 1,	1,500.00 \$	2,500.00 \$	4,000.00		800.008	,	Huntington Beach
95		Fumish & install pullboxes (#8) (Rabinwood to Edinger)	ង	2	\$ 3,	3,000.00	1,500.00	6,000.00	55	1,200.00 \$		Huntington Beach
96		Furnish & install 2" conduit as replacement (Robinwood to Edinger)	5	100	S	5,000.00	5.00	5,500.00	5 1,7	1,100.00 \$		Huntington Beach
26	Heil Avenue	Furnish & install 2070 ATC controller unit	,S7	-	\$ 2,	2,000.00	\$ 6,000.00	8,000.00	\$ 1.6	1.600.00	,	Huntington Beach
88	2000	Fumish & Install CCTV Camera	EA	+	\$ 2,	2,000.00 \$	\$ 10,000.00 \$	12,000.00	5	2,400.00 \$		Huntington Beach
98		Furnish & Install 2070 ATC controller unit	EA		\$ 2,	2,000.00	\$ 6,000.00	8,000.00		1.600.00 \$,	Huntington Beach
68	Pearce Drive	Furnish & install Fiber Distribtuion Unit, Spice Enclosure, and SMFO-6 Drop Cable + splicing	3	-	2,	2,000.00	8,000.00 \$	10,000.00	\$ 2,0	2,000.00 \$,	Huntington Beach
100	Warner Avenue	Furnish & install 2070 ATC controller unit	EA	+	\$ 2,	2,000.00	\$ 6,000.00	\$ 00.000.8		1,600.00 \$		Huntington Beach
01		Fumish & Install CCTV Camera	Æ	٠	\$ 2,	2,000.00	\$ 10,000.00 \$	12,000.00	s	2,400.00 \$	1	Huntington Beach
							Subtotal: \$	1,172,000.00		234,400.00 \$		
						Conti	Contingency (10%): 5	117,200.00		23,440,00 \$		
				ວິ	onstruct	ion Manag	Construction Management (15%): \$	175,800.00	s	35,180.00 \$	٠	
			S	STEM	IMPR	OVEME	SYSTEM IMPROVEMENT TOTAL: \$	1.465.000.00	\$ 293,000.00	00.0		

SECTION 6: PROJECT SCHEDULE BY TASK

Project start date: July 1, 2020

Project end date: June 30, 2023

Primary Implementation

Task	Starting Date	Ending Date
Task 1: Project Administration	July 1, 2020	June 30, 2021
Task 2: Data Collection	July 1, 2020	December 31, 2020
Task 3: Field Review and Plans Specifications, and Estimates	July 1, 2020	January 31, 2021
Task 4: Corridor "Before" Study	January 12, 2021	January 19, 2021
Task 5: Signal Timing Optimization and Implementation	August 1, 2020	May 18, 2021
Task 6: Corridor "After" Study	May 5, 2021	May 18, 2021
Task 7: Synchronization System Construction	July 1, 2020	May 31, 2021
. Task 8: Primary Implementation Project Report	July 1, 2020	June 9, 2021
Task 9: Ongoing Operations & Maintenance	July 1, 2021	June 30, 2023

Ongoing Monitoring and Maintenance

Task	Starting Date	Ending Date
a. Monitoring and improving optimized signal timing	July 1, 2021	June 30, 2023
b. Communications and detection support	July 1, 2021	June 30, 2023
c. OMM Memo	July 1, 2021	June 30, 2023

SECTION 7: DETAILED LOCAL MATCH COMMITMENT

Input Only 经特殊Auto-Fit 学校的

PART 1: AGENCY TOTAL MATCH SUMMARY

Agency	CAS	4	IN-H	CIND	TOTAL MATCH			
Agency	PI	OMM	PI	OMM	Pl	OMM		
City of Garden Grove	\$27,900.00	\$2,400.00	\$83,160.00	\$0.00	\$111,060.00	\$2,400.00		
Ony or Garden Grove	\$30,300	00	\$83,1	60,00	\$113	460.00		
CALTRANS	\$6,900.00	\$1,440.00	\$0.00	\$0.00	\$6,900.00	\$1,440.00		
S. CALITANS	\$8,340.	00	\$0.	00	\$8,3	10.00		
City of Westminster	\$116,640.00	\$2,880.00	\$0.00	\$0.00	\$116,640,00	\$2,880.00		
City of Assumitated.	\$119,520	0.00	\$0.	00	\$119,1	20.00		
City of Huntington Beach	\$123,814.00	\$3,840.00	\$3,146.00	\$0.00	\$126,960.00	\$3,840.00		
ony or rional group beauti	\$127,65	1.00	ii (3-7)€ 27 (5 3),1 4	6.00	\$130,8	00.00		
TOTAL MATCH	\$275,254.00	\$10,560.00	\$86,306.00	\$0.00	\$361,560.00	\$10,560.00		
TOTAL MATCH	\$285,814	.00	\$86,3	06.00	\$372	20.00		

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

A. Cash Match

Agency ·	Funding Source	Amount of Cash Contribution
City of Garden Grove	Local Funds	\$30,300.00
CALTRANS	TO BE COVERED BY LOCAL AGENCIES :	\$8,340.00
City of Westminster ::	Local Funds	\$119,520,00
City of Huntington Beach:	Local Funds	\$127,654.00
	TOTAL CASH MATCH:	\$285,814.00

B. In-Kind Services

i. Specific Improvements (List items and Cost):

Agency	Description	Expenditure
City of Garden Grove	Traffic Signal Controller cabinels (4@\$20,790 ea)	\$83,160.00
CALTRANS	N/A	\$0.00
City of Westminster	N/A	\$0.00
City of Huntington Beach	N/A	\$0.00
	Total Specific Improvements (i):	\$83,160,00

ii, Staffing Commitment:

Agency	Staff Position	Type of Service to Project	No, of Hours	Fully Burdened Hourly Rate	Total*
Cily of Garden Grove		This is a property and	Ö		\$0.00 AV
			Total for C	ity of Garden Grove:	
CALTRANS :	A dia tira.		0	TO KUL	\$0.00
			Total for	City of CALTRANS:	\$0.00
City of Westminster	a sept process		. 0		\$0.00
			Total for	City of Westminster:	\$0.00
City of Huntington Beach	Principal Civil Engineer	Project Administration	25	\$125.85	\$3,146.25
			Total for City of	d Hunlington Beach:	\$3,146.25
			Total Staffir	ng Commitment (ii):	\$3,146.25

TOTAL IN-KIND MATCH* (I + II): 34.\$86,306.25

[&]quot;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 is expected to be included with the final submittal. Records will be subject to auditing.

SECTION 8: ENVIRONMENTAL CLEARANCE AND OTHER PERMITS

Environmental clearance and other permits (if needed) will be obtained for this project.

SECTION 9: SELECTION CRITERIA CALCULATIONS

Vehicle Miles Traveled (VMT):

Segment	ADTs	Distance	VMT
Chapman Ave to Cinema Main Driveway	48,330	0.13	6,481
Chapman Ave to Cinema Main Driveway	2.5.75	Mary No. At Service	D. V. S 2 V. S.
Cinema Main Driveway to Belgrave Ave	48,330	0.08	3,881
Belgrave Ave to Lampson Ave	53,440	0.25	13,320
Lampson Ave to Cerulean Ave	47,311	0.21	10,036
	77.75.7 T 4 S	35.54	10,000 (
Cerulean Ave to Tiffany Ave	49,986	0.25	12,553
Tiffany Ave to SR 22 WB Ramps	54,000	0.07	3,723
Garden Grove FWY Exit to Garden Grove Blvd	54,000	0.22	12,048
Garden Grove Blvd to Old Bolsa Chica Rd	44,000	0.32	14,217
	A CONTRACT SHIP	r vatari Nisab	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Old Bolsa Chica Rd to Duncannon Ave	42,659	0.23	9,905
Duncannon Ave to Westminster Blvd	42,659	0.53	22,493
Westminster Blvd to St James Park	45,410	0.21	9,374
St James Park to Churchill Ave	45,410	0.27	12,453
Churchill Ave to Rancho Rd	45,410	0.16	7,087
Rancho Rd to Bolsa Ave	45,163	0.41	18,527
Bolsa Ave to Argosy Ave	37,935	0.23	8,650
Argosy Ave to McFadden Ave	37,935	0.27	10,389
McFadden Ave to Robinwood Ave	33,262	0.35	11,742
Robinwood Ave to Edinger Ave	33,262	0.15	4,964
Edinger Ave to Heil Ave	28,785	0.50	14,393
Heil Ave to Pearce Dr	21,804	0.25	5,468
Pearce Dr to Warner Ave	21,804	0.25	5,468
Tot	al Project VMT:	5.35	217,171

Source: 2019 City of Huntington Beach, City of Garden Grove and City of Westminster ADT Counts

SECTION 10: DETAILED BREAKDOWN OF COSTS BY AGENCIES

City of Garden Grove Number of Signals: 5

Project Tasks (Garden Grove)		otal Cost	Match			
		otai Coșt		Cash	1	n-Kind
Task 1: Project Administration	\$	10,000	\$	2,000	\$	-
Task 2: Data Collection	\$	4,250	\$	850	\$	-
Task 3: Field Review and Plans Specifications, and Estimates	\$	37,800	\$	7,560	\$	_
Task 4: Corridor "Before" Study	\$	2,500	\$	500	\$	-
Task 5: Signal Timing Optimization and Implementation	\$	23,250	\$	4,650	\$	_
Task 6: Corridor "After" Study	\$	2,500	\$	500	\$	-
Task 7: Synchronization System Construction (See Table II)	\$	472,500	\$	11,340	\$	83,160
Task 8: Primary Implementation Project Report	\$	2,500	\$	500	\$	
Task 9: Ongoing Operations & Maintenance (See Task 9 Details)	\$	12,000	\$	2,400	\$	-
Total Project Cost:	\$	567,300	\$	30,300	\$	83,160

Caltrans Number of Signals: 3

Project Tasks (Caltrans)		tal Cost		Ma	tch	ch	
		Total Cost		Cash		Kind	
Task 1: Project Administration	\$	13,500	\$	2,700	\$	-	
Task 2: Data Collection	\$	2,550	\$	510	\$	-	
Task 3: Field Review and Plans Specifications, and Estimates	\$	-	\$	-	\$	-	
Task 4: Corridor "Before" Study	\$	1,500	\$	300	\$	•	
Task 5: Signal Timing Optimization and Implementation	\$	13,950	\$	2,790	\$	-	
Task 6: Corridor "After" Study	\$	1,500	\$	300	\$		
Task 7: Synchronization System Construction (See Table II)	\$	-	\$	-	\$	•	
Task 8: Primary Implementation Project Report	\$	1,500	\$	300	\$	-	
Task 9: Ongoing Operations & Maintenance (See Task 9 Details)	\$	7,200	\$	1,440	\$	-	
Total Project Cost:	\$	41,700	\$	8,340	\$		

City of Westminster Number of Signals: 6

Project Tasks (Westminster)		atal Cant	Ma	tch			
	Total Cost		Total Cost		Cash	In-Kind	
Task 1: Project Administration	\$	12,000	\$ 2,400	\$	-		
Task 2: Data Collection	\$	5,100	\$ 1,020	\$	-		
Task 3: Field Review and Plans Specifications, and Estimates	\$	39,200	\$ 7,840	\$	-		
Task 4: Corridor "Before" Study	\$	3,000	\$ 600	\$			
Task 5: Signal Timing Optimization and Implementation	\$	27,900	\$ 5,580	\$			
Task 6: Corridor "After" Study	\$	3,000	\$ 600	\$			
Task 7: Synchronization System Construction (See Table II)	\$	490,000	\$ 98,000	\$	100		
Task 8: Primary Implementation Project Report	\$	3,000	\$ 600	\$	-		
Task 9: Ongoing Operations & Maintenance (See Task 9 Details)	\$	14,400	\$ 2,880	\$	-		
Total Project Cost:	\$	597,600	\$ 119,520	\$			

City of Huntington Beach

Number of Signals: 8

Project Tasks (Huntington Beach)		Total Cost		Match			
	'	Total Cost		Cash		-Kind	
Task 1: Project Administration	\$	16,000	\$	54	\$	3,146	
Task 2: Data Collection	\$	6,800	\$	1,360	\$	-	
Task 3: Field Review and Plans Specifications, and Estimates	\$	60,300	\$	12,060	\$	-	
Task 4: Corridor "Before" Study	\$	4,000	\$	800	\$		
Task 5: Signal Timing Optimization and Implementation	\$	37,200	\$	7,440	\$	_	
Task 6: Corridor "After" Study	\$	4,000	\$	800	\$	-	
Task 7: Synchronization System Construction (See Table II)	\$	502,500	\$	100,500	\$	-	
Task 8: Primary Implementation Project Report	\$	4,000	\$	800	\$		
Task 9: Ongoing Operations & Maintenance (See Task 9 Details)	\$	19,200	\$	3,840	\$		
Total Project Cost:	\$	654,000	\$	127,654	\$	3,146	

Grand Total Project Cost	\$ 1,860,600	\$ 285,814 \$	86,306
Total Match	\$ 372,120		
M2 Grant Total	\$ 1,488,480		

Project Summary

X All guidelines were met for this project.

Not all qualifications were met. An explanation of why the guidelines were not met for this project is provided below.

LIST OF CONTACTS

Agency	Phone	Email	Street Address
City of Garden Grove Dai Vu, P.E. City Traffic Engineer	Dai Vu, P.E. (714) 741-5189 da		City of Garden Grove 11222 Acacia Parkway Garden Grove, CA 92840
CALTRANS Denny Ngo Transportation Engineer	(949) 936-3512	Denny.Ngo@dot.ca.gov	Caltrans 1750 E. 4th Street, Suite 100 Santa Ana, CA 92705
City of Westminster Bill (Hoa) Pham Civil Engineering Associate	(714) 548-3457	bpham@westminster-ca.gov	City of Westminster 8200 Westminster Boulevard Westminster, CA 92683
City of Huntington Beach William F. Janusz, P.E. Principal Civil Engineer	(714) 374-1628	Wjanusz@surfcity-hb.org	City of Huntington Beach 2000 Main St, P.O. Box 190 Huntington Beach, CA 92648

BUDGET SPREADSHEET

Corridor:

BOLSA CHICA / VALLEY VIEW AGENCY COST SUMMARY

	Total Project	ŝ	\$567,300	\$41 700	\$597 800	\$654,000	\$1,860,600 ·	\$1,488,480	\$86,306	\$285.814	The second secon											
	Match Type	In-kind	\$0	20	200	SO	05															
RATION	Matc	Cash	\$2,400	\$1.440	\$2,880	\$3.840	C. \$10,560 P.				***************************************											
ONGOING MAINT & OPERATION	Match	INDIA!	\$2,400	51,440	\$2.880	\$3,840	**************************************	\$42,240	\$42,240	\$42,240	\$42,240	\$42,240	\$0	\$10,560	40000000							
ONGOIN	MAD Grant	אול כומוו	\$9,600	\$5,760	\$11,520	\$15,360	\$42,240															
	100	in	\$12,000	\$7,200	\$14,400	\$19,200	* K\$52,800			The second secon	441. 415. Charle											
	Type	In-kind	\$83,160	SO	80	\$3.148	\$86,306		THE PERSON NAMED IN	The second second	Contract the market											
ATION	Match Type	Cash	\$27,900	\$6,900	\$118,840	\$123,814	#\$275,254:m				The second second											
PRIMARY IMPLEMENTATION	March	1000	\$111,060	\$6,900	\$116,640	\$128,960	5: \$361.560 ≈ ·	\$1,446,240	\$86,306	\$275,254												
PRIMA	M2 Grant		\$444,240	\$27,600	\$466,580	\$507,840	\$1:446,240			***************************************	THE PARTY OF THE P											
	Cost		\$555,300	\$34,500	\$583,200	\$634,800	\$1,807,800				Section of the second section in the second											
2 500 400	No. Signal		5	3	. 8	8	22	M2 Grant	In-kind Match	Cash Match	Distant Total											
22	Agency		GARDEN GROVE	CALTRANS	WESTMINSTER	HUNTINGTON BEACH	Total me temperature the time															
			-	2	3	4	And the Company of the Paris Comment															

TOTAL TASKS SUMMARY

3				٦	Local Match (20%)	%
Phase	Tasks	Costs	M2 Grant	Total Major	Matc	Match Type
				ו חומו אומוחו	Cash	In-kind
	Project Administration (inc Caltrans fee)	\$51,500	\$41,200	\$10,300	\$7,154	\$3,146
	Develop & Implement	\$132,000	\$105,600	\$26,400	\$26,400	\$0
	Before & After Study	\$22,000	\$17,600	\$4,400	\$4,400	80
Drimon	Sub-Total	\$205,500	\$164,400 ·	. \$41,100 F	337,854	\$3,146
Tablement.	Design	\$137,300	\$109,840	\$27,460	\$27,480	20
HIPPEINGH	System Improvements	\$1,172,000	\$937,600	\$234,400	\$151,240	\$83,160
	Contingency	\$117,200	\$93,780	\$23,440	\$23,440	0\$
	Construction Engineering	\$175,800	\$140,640	\$35,160	\$35,160	\$0
	IstoT-duS	- \$1,602,300 ···	- \$1,281,840	\$1,281,840 * \$320,460	- \$237,300-	- \$237,300 (+): \$83,160
	1. 1. 1. Phase Total (2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	\$1,807,800	: \$1,446,240 -	\$361,560:		\$275,254 1 1 \$86,306 121
naion an	Ongoing Maintenance - Monitoring	\$36,960	\$29,568	\$7,392	\$7,392	\$0
Maint &	Ongoing Maintenance - Comm & Det Support	\$15,840	\$12,672	\$3,168	\$3,168	25
operation	1.0 p.m. m. Phase-Total Piere account of 101852,800 com 101842,240 and 101860 and 101810,560 mm 1018 0010 mm	\$52,800 · · ·	\$42,240	\$10,560	\$10,560	0\$45
1 Ta 7	Project Total	\$1,860,800	- \$1.488 480	S372,120	\$285.814	\$285.814

TOTAL AGENCY MATCH SUMMARY

				<u>ن</u>	Local Match (20%)	(%)
	Agency	Project Cost by Agency	M2 Grant (80%)	Total Match	Matc	Match Type
		~0.05B == 14000001			Cash	In-kind
+	GARDEN GROVE	\$567,300	\$453,840	\$113,460	\$30,300	\$83,160
2	CALTRANS	\$41,700	096,56\$	\$8,340	\$8,340	\$0
	WESTMINSTER	\$597,600	\$478,080	\$119,520	\$119,520	\$0
4	HUNTINGTON BEACH	\$654,000	\$523,200	\$130,800	\$127,654	\$3,146
×	\$ 2.47 \$ Total 144	21,860,600	-151,488,480	- \$372,120 E	· \$285,814	\$86,306

AGENCY	\$2,184.74	\$2,633.68	\$3,511,58
CALTRANS MATCH DISTRIBUTED TO EACH AGENCY	GARDEN GROVE	WESTMINSTER	HUNTINGTON BEACH

TOTAL MATCH \$115,654,74 \$122,153.68 \$134,311,58 \$372,120,00

er eller published bit all

distribution-size.

VALLEY VIEW ST GARDEN GROVE Carridor: Agency*

		Andrewson to								Project Cost			-				
No. of Physics			200797000	Project		Signal Timing			6yst	System Improvements							
No. of orginal	Agency	וענו	mersection .	Administration	Develop &	Before & Affer	Gujoduo	. Intersection/Field		Oetection	TMC Upgrade	Improvements	Design		Impr &	Design Match	$\ $
	GARDEN GROVE	VALLEY VIEW 9T	Chapter and	500 50	200	200	Distriction of the same	ON WEST		DELCO		TOTAL	- 1	Design Total M.	Marico (20%) 1.	Carb . I . In-	KING
	STOCK STOCKS	100000000000000000000000000000000000000	SKO NOW JOUR	24,000	non'es	2000	37,400	248,000	20	30		248,000	24,800	\$52,800	\$10,5801	\$ 105.	510.56
	CANCEN GROVE	VALLET VIEWSI	CINEMA MAIN DWY	\$2,000	36,000	51,000	\$2,400		05 ::	CS		262 000	54 700	SAR 2001	CAN RADI		
-	GARDEN GROVE	VALLEY VIEW ST	BELGRAVE AVE	\$2,000	\$6,000	\$1,000	\$2.400		\$62,000			200	200	200			0.0
	GARDEN GROVE	VALLEY WOWNET	The same of the same	500 65	2000	900	101 40		N. C.	XX		204,000	20.400	300,200	213,040	20	273,640
	A 200 MONTH OF THE PARTY OF THE		POWE SON DAY	200	20,000	20,15	32,400	200.00	\$4,000	\$0		\$72,000	\$7,200	\$79,200	\$15,8401	\$. 105	515 BAC
	מאטבא מאטבא	VALLET VIEW SI	CERULEANAVE	22,000	28,000	21,000	\$2,400		24,000	20	***************************************	372 000	\$7.200	578 200	215 8401	153	78.87
	GARDEN GROVE	TAC .		Section of the sectio							. tes con	ľ				١	201010
5	Att a see assessment	Total	The second of the second	. 640 000	530 000	2000	200		-		1		30,500	200,200	313,5401	. 50	213,040
				2000	200	2000	2 6 WW	00.000	1000 91	20	· · · · 562,000		\$37,600	S415, 800	583,180	2 105	563 180
•									.61	Subjects		5378 0001	S17 ADO	244 300	CHA 4601		

Ongoing Comm & Det Support per sign CDSTS SUMMARY

2/2	\$30
per monta:	gnal per month;
2	Bue

	2 10	0			Local Maich (20%	ch (20%)	
Phase	Tanks	Costs	MZ Grant	Trees Educado		Match Type	
				TOTAL STREET	Cash	In-kind	Fund Source
	Project Administration	\$10,000	28,000	\$2,000	\$2,000	:	Measure M
	Develop & Implement	000,000	\$24,000	\$6,000	2000		Measure M
	Bette & After Study	000°s±	24,000	\$1,000	-: 000 LS		Measure M
Primary	Deston	\$37,800	\$30,240	095'72	17,560	8	Measure M
Implement	System improvements	5378,000	\$302,400	\$75,600	~\$7,560	\$83,180	1
	Contingency	\$27,800	230,240	095'25	\$7,580	8	Measure M
	Construction Engineering	\$56,700	245,360	511 340	511.340	8	
	Phase Total	3555,300	3444240	\$111.050	006 223	563 160	
Total Majore	Ongoing Maintenance - Monitoring	28,400	\$6,720	31,550			Measure M
ober	Ongoing Maintenance - Cernm & Det Support	009'63	\$2,880	\$720	\$720		Measure M
	Phase Total		\$12,000	22 400	52 400	05	
	· Total · ·	EKRY 400	DT 0 1373				

Staffing Commitment For in-kind Match

	PENIOR.	Type of Service	No. of Hours	Hourty Rate	Amount
The state of the s					S
GARDEN GROVE					20
		:	*		\$0
					\$0
			" " " " " " " " " " " " " " " " " " "	Total	30

Comidor: VALLEY VIEW ST Appncy CALTRANS

Ongoing Maintenance per algral per month; \$70 Ongoing Comm & Det Support per algnal per month; \$30

COSTS SUMMARY

					Local Maich (20%)	ch (20%)	
FURES	Tanke	Coats	M2 Grant	Total Mariet		Match Type	
				Dall Marcu	- Cash	h-kind	Fund Source
	Project Administration	\$13,500	\$10,800	\$2,700	22 700		Ŀ
	Develop & Implement	\$18,000	214,400	\$3,600	23 800		
	Before & After Study	000,03	\$2,400	\$600	2800		
Primary	Deskin	05	20	Q\$	C\$	5	L
Implement	System Improvements	0\$	los	8	SOS	\$	2 5
	Contingency	08	OS	OS	Ç		
	Construction Engineering	\$0	SO	9	Ş		
The second secon	Phase Total	\$34 500	8 7CZ	15	0 83	1	
Canadan Major	Ongoing Maintenance -	\$5,040		\$1,008			
Oper	Ongoing Maintenance - Comm & Det Support	\$2,160	\$1,728	\$432	2432	05	
-	Phase Tolst	\$7,200	25,760	\$1,440	31,440	28	
27	· · · · · · · · · · · · · · · · · · ·	. 541,700	333.380	- 58 340	58.340	0.0	

Staffing Commitment For In-kind Match

		177	20
CALTRANS	The same of the sa		20
		1	20
			20

Corridor: Agency:

						Control of the Contro		The state of the s								
1424 - 200 -									Project Cox	Cost						-
183				Basine		Signal Timing			System Impr	provements						
No. of Signal	Agency	Jufe	Intersection	Administration	Develop &	Before & Affer	Ongoing	. Intersection/Fleid:.	Communication	Defection .:	Improvements	Carino	Impr &	Jmpr &	Design Match	_
	The second secon	- The state of the	Mary Company of the C		Implement	Study	Maintenance -	System Upgrade	Upgræde	Uportade	Total	-	Design Total M.	(20%) .:	Cash	n-kind
-	WESTMINSTER	BOLSA CHICA ST	OLD BOLSA CHICA RD	\$2,000	\$6,000	21,000	\$2,400	331,000	5.	225,000	\$56,000	25,600	\$61,600	\$12,320	\$12,320	0
-	WESTMINSTER	BOLSA CHICA ST	DUNCANNON AVE	22,000	36,000	\$1,000	\$2,400	353 000	2	225 000	\$78,000	\$7,800	\$85,800	\$17,180	\$17.160	05
	WESTMINSTER	BOLSA CHICA ST	IWESTMINSTER BLVD	\$2,000	\$6,000	\$1,000	\$2,400	000'59\$		0.0005280	\$30,000	000'68****	\$99,000	\$19,800	: 19,800 :::	05 ::-
	WESTMINSTER	BOLSA CHICA ST	STJAMESPARK	\$2,000	\$6,000	\$1,000	\$2,400	\$31,000	\$	00: \$25.000	\$56,000	\$5,600	\$61,600	\$12,320	-\$12,3201	0\$
	WESTMINSTER	BOLSA CHICA ST	ICHURCHILL AVE	\$2,000	\$6,000	\$1,000	\$2,400	\$31,000	\$	000:\$25:000	\$55,000	35,600	\$61,600	\$12,320	.\$12,320	05
	WESTMINSTER	BOLSA CHICA ST	RANCHORD	\$2,000	\$6,000	\$1,000	\$2,400	\$31,000	\$:	0 . \$25,000	256 000	\$5,600	\$51,500	\$12,320	512,320	010
9	· · · · · · · · · · · · · · · · · · ·	Total	A SECTION OF STREET AND A SECTION OF	\$12,000	236,000	16,000	\$14,400	14 77-5242,000	Same granter of	0 25.00.\$150,000	- 2392,000	\$38,200	S431,200	\$86,240	-\$66.240	05
									Subtotal		2392,000	\$39,200	\$431,200	\$86,240	\$96.2401	05
•		The state of the s														

220 Ongoing Maintenance per signal per month: Ongoing Comm & Det Support per signal per month:

COSTS SUMMARY

					Local Match (20%)	h (20%)	
Phase	Tasks	Costs	M2 Grant	Special States		Match Type	
				COME WEST	Cash	In-kind	Fund Source
	Project Administration	\$12,000	009'65	\$2,400	\$2,400		
	Davelop & Implement	000'96\$	\$26,600	\$7,200	\$7,200		
	Before & After Study	\$6,000	34,600	\$1,200	\$1,200		
Prémery	Deskin	002,653	\$31,360	\$7,840	37,840	30	
Implement	System Improvements	1332,000	\$313,600	\$78,400	\$78,400	\$0	
	Confingency	\$39,200	\$31,360	37,840	37,640	\$0	
	Construction Engineering	\$56,800	347,040	\$11,760	311,760	30	
	Phase Total	\$583,200	2468,560	. \$118.640	3116,640	150	
The Market of	Ongoing Maintenance - Monitoring	\$10,080	\$5,054	\$2,016	\$2,016	4.00 M	
Oper	Ongoing Maintenance - Corrun & Det Support	\$4,320	33,456	\$905	\$964	\$0	
Carrieries (1)	Phase Total	007/15	\$11,520	\$2,880	. \$2,560	\$2,580	
	To(a)		080 8275	\$119.520	\$119 520\$119 520	\$0	

Agency	Staff Position	Type of Service	No. of Hours	do. of Hours Hourly Rate	Amount
			77. 19.		\$0
WESTWASTED	1				\$0
					30
					8

Comidor, BOLSA CHICA ST Agency HUNTINGTON BEACH

					The second second											
	Annual Section	The second secon							Project Cost	inet.			-			
Section 1970						Signal Timing			Bystem imposyments	Virginals			-			1
No. of Starte	Annov	Inter	Intercention	L	- Frederick											
		!		Administration	o doing	DEIGNE & Aller		· Intersection/Field	Communication	. Detection .	*Inomovordm	Darlon	Impr &	Impr&D	Impr & Design Match	
					Inglienelli	Stridy	Maintenance *	System Dograde	· · · · · · · · · · · · · · · · · · ·	openbdn	Total		Design Total Mat	Match (20%)	Chek . In the	Vind
	HUNTINGTON BEACH	BOLSA CHICA ST	BOLSA AVE	\$2,000	28,0001	\$1,000	32.400	620 000		103	500 605	243 640	1000	1.	-	1
	HUNTINGTON BEACH	SOLSA CHICA ST	ARCOSY AVE	1000	CK OOM	00000	20,00		200	ŀ	200	\$15,575	10/04/014			20
		50000	200 000	22,000	OW, DA	000,14	32,400			105	\$61,000	\$9,150	1051.072	\$14 030		SO
-	HUNINGION BEACH	BOLSA CHICA ST	MCFADDEN AVE	\$2,000	28,000	\$1,000	32.400	220 000	1000 555 000	103	\$78.000	444 400	1007 100	- 10ar 244		
•	HUNTINGTON BEACH	BOLSA CHICA ST	BO GOOWWINGS	0000 63	18,000	44 000	22 400	200 83		I.	200	-	30/200	204/14	- 100W/11	2
	TO T	ļ	200	20075	000'00	200.15	DO#,24	100 at .	\$6,000 \$62,000	201	\$70,000	\$10,500	\$80,5001	\$18,100\$18,100	118.100	30
	DON'S INC. ION BEACH	BOLSA CAICASI	EDINGER AVE	\$2,000	36,0001	\$1,000	32.400	\$20 000	S28 SDG	103	EAR SING	260 83	1347 638	1000000		
•	HUNTINGTON BEACH	BOI SA CHICA ST	HEIL AVE	000 63	\$6,000	000	1007 64	000 000		l	200	2000	300,470	- Icapine	*10,882	0
	TO TO TO TO TO THE PARTY OF		22,22,22	200	2000	200	34,400	000,000	104	100	\$20,000	23,000	223 000	34 6001	24 600	200
	NOW INCHES	BOLSA CRICAS	PEARCEUR	\$2,000	\$6,000	\$1,000	\$2.400	\$8,000	58 000 510 000	103	COORTS	007 CS	1007.003	. 1073 73	1	1
-	HUNTINGTON BEACH	BOLSA CHICA ST	WARNER AVE	\$2 000	1000 88	51 000	42 400			100	000000	22.00	***		1	2
						1			ı	Int.	320000	\$3,000	223 000	\$4,600	000	8
	6	10101		2000	1000	\$8,000			\$124,000 \$278,000	20	-:- \$402 000 ::-	\$80 300	· ** \$462-300 Let	1 S92 4801 - 1502 4801	100 4001	05.1.
									Subtotal	-	5402 000	250 300	CAK2 3004	1002 4501 1002 4801	102 400 ····	
	Ongoing Mainten	Ongoing Maintenance per signal per month:	270						10% Conlingancy	1000	\$40,200		-	\$8.040	CB 040	
	Orgoing Comm & Det Support per signal per month:	ipport per signal per month							15% Construction Engineering	ndineering	350,300		L	١.	C12 DRD	T
															-	The state of the s

1					Local Match (20%)	h (20%)	
Pheso	Tasks	Coats	M2 Grant	Total Mateh		Match Type	
				L Market	Cash	In-kind	Fund Source
	Project Administration	\$16,000	\$12,800	\$3,200	155	53,146	
	Develop & Implement	\$48,000	828,400	29,600	\$9,600	So	:
	Before & After Study	000'85	26,400	\$1,800	\$1,800	\$0	
Primary	Design	280,300	\$48,240	\$12,060	\$12,080	SO	
mplement	System improvements	\$402,000	\$321,600	\$80,400	\$50,400	20	.:
	Continuency	\$40,200	\$32,180	28 040	\$8.040	os	
	Construction Engineering	360,300	549,240	\$12,060	\$12 060	So	
	Phase Total	\$534,500	\$507.840	\$126,950	\$123,814	33.146	
A Paint Beint	Ongoing Maintenance - Monitoring	\$13,440	\$10,752	\$2,586	\$2,588	0\$	
Oper	Ongoing Maintenance -	25,760	809,12	51,152	\$1,152	S	
	lalo Lesard.	\$19,200	, \$19,200 · · · · · · \$15,360	\$3,8401	53,840	50	30
	Total	2654,000	5523 200	\$130,8001 \$127,854	5127 554	\$3 148	2 2 2

COSTS SUMMARY

Iffing Commitment For in-kind Match

Agency	Staff Position	Type of Service	No. of Hours"	Hourly Rate	Amount
	Principal Civil Engineer	Protect Administration	25.00	. \$125,85	\$3,145
HUNTINGTON BEACH			The state of the s		30
					205
					20
	the state of the state of	the sale with the training	100 000 1000	HeloT Total	371 23 . 4

BOLSA CHICA ST (VALLEY VIEW ST

CORRIDOR

No	Agency		Intersection	TOA	Distance (mile)	VMT	Number of	SOundRed	L
1	GARDEN GROVE AND AND AND AND EV VIEW	ALLEY MEW ST	CHADRAN AVE				intersections	and the same of	Pictures
2	GARDEN: GROVE SERVICE STATE OF LIE BY VIEW	1 <	Charles and in Clark		00.00	0			>
ľ	TO COLLEGE		CHAENA MAIN DAY	48330	0.13	6481			3
2	SARDEN GROVE AND CONTROL VALLEY ME	ALLEY WEW ST	BELGRAVE AVE	48330	800	3881			
4	GARDEN GROVE CONTRACT VALLEY VIEW	ALLEY VIEW ST	LAMPSON AVE	Sadan	36.0	70004			
5	GARDEN GROVES FOR STATE AND VALLEY VIEW	ALLEY VIEW ST	CERULEAN AVE	47544	200	0200	•		>
9	CALTRANS WITH PROPERTY OF THE VALLEY VIEW	ALLEY VIEW ST	TIFEANY AVE	andox.	0.41	GEOOL	2	\$ 375,000	>
2	CALTRANSCENSION CONTRACTOR CONTRACTOR VALUE VICE	10	active out cc oo	00000	0.25	12553			×
8	CALTOANS TO THE THE PART OF TH		STALL WE CAMPS	24000	0,07	3723		1	×
		21.	GARDEN GROVE BLVD	54000	0.22	12048	m	\$ 225,000	×
n	WEST MINSTER THE WIND BOLSA CHIC	OLSA CHICA ST	OLD BOLSA CHICA RD:	44000	032	74777			
9	WESTMINSTER COMPANY OF WAR WINGS CHICA	OLSA CHICA ST	DUNCANNON AVE	42859	66.0	3000			
11	WESTMINSTER STATES TO THE STATES CHICA	OLSA CHICA ST	WESTMINSTER BLVD	ANACA	630	505.00			1
12	WESTMINSTER TO THE STATE OF THE BOLSA CHICA	OLSA CHICA ST	ST JAMES PARK	45440	200	2200			>
13	WESTMINSTER	1 1	CHURCHII AVETTI	2575	750	833			>
14	WESTMINSTER	1 4	00 070740	2),7:N	12453			>
1		S POINT S	יייייייייייייייייייייייייייייייייייייי	45410	0.16	7087	ю	\$ 450,000	,
2	HOWINGTON BEACH BOLSACHIC	OLSACHICAST	BOLSA AVE	45163	0.41	18527			,
16	HUNTINGTON BEACH 180LSA CHIC	OLSA CHICA ST	ARGOSY AVE	37935	0.03	CSSR			
17	HUNTINGTON BEACH STREET BOLSA CHICA	OLSA CHICA ST	MCFADDEN AVE	37935	76.0	10380			
18	HUNTINGTON BEACH THE WITE THE BOLSA CHICA	OLSA CHICA ST	ROBINWOOD DR	33262	55.0	44747			
19	HUNTINGTON BEACH BOLSA CHICA	OLSA CHICA ST	EDINGER AVE	CHCEE	240	7007			}
20	HUNTINGTON BEACH	OLSA CHICA ST	HEII AVE	20705	200	4904			>
21	HUNTINGTON BEACH	1 -	PEARCEOR	20102	0.30	14393			>
22	HINTINGTON REACHT THOUSENDED AND TONION THE	TO COLUMN CT	The Cartes are as a second	71804	0.25	2458			>
	TO T	CLOA CHICA SI	WARNER AVE	21804	0.25	5458	6 0	500 000	3
	Cantans 20% match is the responsibility of local agen	of local adencies.		177		-			,

Corridor: VALLEY VIEW ST Agency: GARDEN GROVE

Category	C GARDEN GROVE Description	Unit	Outstill	1 Unit Cont	1 8	10.2.4.4.4	I
Intersection;	CHAPMAN AVE	1 Unit	Luantity	. Unit Cost	Amount	Sub-total	Intersection To
			1	1			
Intersection/Fleld	Controller	EA	1	\$ 6,000.00	\$ 6,000.00	1	
System Upgrade	Rewire Intersection (Replace Pullboxes)	LS	1	\$ 22,000.00		\$48,000	
dystem opgrade	CCTV	EA	1	\$ 10,000.00		1	
	APS PPB	LS	1	\$ 10,000.00		1	
			1		\$ -	1	20202020
Communication					\$ -	i	\$48,000
Upgrade					\$ -	i \$0	k
opgrade				1	\$ -	1	
		1			\$ -	i l	
.0		1			\$ -		
Detection Upgrade			· · · · · · · · · · · · · · · · · · ·		\$ -	i so	
##254X					\$ -	{	
Intersection;	CINEMA MAIN DWY				-	1	
	Install City Furnished Cabinet, Foundation and	1					
	Service	LS	1	\$ 24,000.00	\$ 24,000.00	1 1	
Intersection/Field	Controller	EA	1	\$ 6,000,00	\$ 6,000.00	\$62,000	
System Upgrade	Rewire Intersection (Including Pullboxes)	LS	1	\$ 22,000.00		402,000	
	APS PPB	LS	1	\$ 10,000.00	\$ 10,000,00	1 1	
	70.017.0	1		\$ 10,000.00			
					\$ -	{	\$62,000
Communication					\$ -	\$0	
Upgrade					\$ -	*0	
					\$ -		
**					\$ -		
Detection Upgrade					\$ -	\$0	
perconon opgitude					\$ -	\$0 I	
ntersection;	BELGRAVE AVE		لــــــــــا	ليستسيا	\$ -	\vdash	
meraconori,	Install City Furnished Cabinet, Foundation and	1					
	Service	LS	1	\$ 24,000.00	\$ 24,000.00		
Intersection/Field							
System Upgrade	Controller	EA	1		\$ 6,000.00	\$62,000	
	Rewire Intersection (including Pullboxes)	LS	1		\$ 22,000.00		
	APS PPB	LS	11	\$ 10,000.00	\$ 10,000.00		
					\$ -		\$62,000
Communication					\$ -		402,000
Upgrade					\$ -	\$0	
					\$ -		
		3.5700.			\$ -		
9.00042A 17.00 - 0.0000 - 25					\$ -		
Detection Upgrade					\$ -	\$0	
	Section 19 1				\$ -		
ntersection;	LAMPSON AVE						
	Install City Furnished Cabinet and Foundation	LS	1	\$ 20,000.00	\$ 20,000.00		
Intersection/Field	Controller	EA	1	\$ 6,000.00	\$ 6,000.00	1	
System Upgrade	Rewire Intersection (including Pullboxes)	LS	1	\$ 22,000.00	\$ 22,000.00	\$68,000	
Charent obdigge	CCTV	EA	1	\$ 10,000.00	\$ 10,000.00		
	APS PPB	LS	1	\$ 10,000.00	\$ 10,000.00		
	Ethernet Switch	EA	1	\$ 4,000.00	\$ 4,000.00		474 -44
Communication					\$ -		\$72,000
Communication					\$ -	\$4,000	
Upgrade					\$ -		
					\$ -		
					\$ -		
Detection Upgrade					\$ -	\$0	
					\$ -		
ilersection:	CERULEAN AVE						
	Install City Furnished Cabinet and Foundation	LS	1	\$ 20,000,00	\$ 20,000 on I		
L-1	Controller	EA	i		\$ 6,000,00		
Intersection/Field	Rewire Intersection (including Pullboxes)	LS	1	\$ 22,000.00		\$68,000	
	CCTV	EA	1		\$ 10,000.00	,, 500	
	APS PPB	EA			\$ 10,000.00	- 1	
	Ethernet Switch	EA	1 1		\$ 4,000.00		
<u> </u>		1 -, 1			\$ -		\$72,000
Communication					\$ -	\$4,000	
Upgrade		 			\$ -	41,000	
1	·	1			\$ -	- 1	
		+			\$ -		
Detection Upgrade	A STATE OF THE STA	1				\$0	
opgrade	****	1			\$ -	40	
tersection:	TMC				4 -		
	IMV						
	IDS	10 1	4	£ 15 000 00 1	£ 15 000 00 1		
Intersection/Field	UPS Video Management Software	LS		\$ 15,000.00 \$ 12,000.00		\$27,000	

LS	1	\$ 35,000.00	\$ 35,000,00		\$62,000
LS			s -	\$35,000	1.5.0
LS			\$ -	50	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ -	ψU	
	LS	LS	LS	LS \$ -	LS \$ - \$35,000

Total

\$378,000

Corridor: VALLEY VIEW ST

Category	Description	Unit	Quantity	Unit Cost	Amount	Cub total	Intersection Total
Intersection	SR 22 WB RAMPS		(weathing)	Omit Gost	Milouite	1900-fotet	Intersection Total
80 0			7		\$0	r	5
Intersection/Field			1		\$0	1	
System Upgrade					\$0	\$0	
					\$0	1 1	
					\$0		
Communication	The second secon				\$0	1 1	\$0
Upgrade					\$0	\$0):#i#:::
					\$0	1 1	
					\$0	1 1	
					\$0		
Detection Upgrade					\$0	\$0	
					\$0		
Intersection;	GARDEN GROVE BLVD				Nor vice		
					20		
Intersection/Field					\$0		
System Upgrade					\$0	\$0	
					\$0		
					\$0		
Communication					\$0	1	\$0
Upgrade					\$0	\$0	(E)
					\$0		
					\$0	8	
e					\$0		
Detection Upgrade					\$0	\$0	
					\$0		
ntersection:	TIFFANY AVE			5797			
12 manufacture pendagi Manufacture i					\$0	***************************************	
Intersection/Field					\$0		
System Upgrade					\$0	\$0	
					\$0	1	
					\$0		
Communication					\$0	- 1	\$0
Upgrade					\$0	\$0	
-Fg					\$0		
					\$0		
					\$0		
Detection Upgrade					\$0	\$0	
	CANAL CONTRACTOR OF THE CONTRA				50	0.40.5	

Total

\$0

Corridor: BOLSA CHICA ST

mersecik	Description	Unit	Quantity	Unit Cost	Amount	Sub-total	Intersection 1
	m: OLD BOLSA CHICA RD					Tana total	
Intersection/Fiek	2070 ATC Controller	EA	1	\$ 6,000,00	\$ 6,000,00	0	
	T	LS	1	\$ 12,000.00	\$ 12,000.00	7	
System Upgrade		EA	1	\$ 10,000,00			
	Ethernal Switch	EA	1	\$ 3,000.00	\$ 3,000,00	51	
Communication					\$ -		\$56,000
Upgrade					\$ -	\$0	100,000
					\$ -	⊣	
5.1.0.11	Video Detection - Iteris Vantage EdgeConnect	LS	1	\$ 25,000.00	\$ 25,000.00	,	
Detection Upgrad	e .	1	i	1	\$ -	\$25,000	
			i —		s -	- 420,000	
intersection;	DUNCANNON AVE						
	2070 ATC Controller	I EA	1 1	\$ 6,000,00	\$ 6,000.00	(T	
	CCTV CAMERA	LS	1			_ ,	
Intersection/Field		EA		\$ 12,000.00			
System Upgrade	Ethernet Switch		1	\$ 10,000.00	\$ 10,000.00		
	Rewire Intersection (Existing conduit at capacity &	EA	1	\$ 3,000.00	\$ 3,000.00	J [
	can't handle additional cable(s))	LS	1	\$ 22,000,00	\$22,000.00	1 1	
	Translation adolphias cable(s))			¥ 22,000.00	\$ 22,000.00	1 1	\$78,000
Communication		-			\$ -		
Upgrade					\$ -	\$0	
	field St. III II I				\$ -	1	
Detective the	Video Detection - Iteris Vantage EdgeConnect	LS	1	\$ 25,000.00	\$ 25,000,00		
Detection Upgrade					\$ -	\$25,000	
					\$ -	-	
itersection;	WESTMINSTER BLVD	-			- -		
	2070 ATC Controller	I EA	1	\$ 6,000.00	****		
Internation	CCTV CAMERA	LS			\$6,000	∤ 1	
Intersection/Field	Install New Conduit (Intersection Crossings)		1	\$ 12,000.00	\$12,000	Į l	
System Upgrade	Ethernet Switch	LS	1	\$ 30,000.00	\$30,000	\$65,000	
	Hub Ethernet Switch	EA	1	\$ 3,000.00	\$3,000) [
	Lung Chistust Swilds	EA	1	\$ 14,000.00	\$14,000		600.000
Communication							\$90,000
Upgrade					0.000.50	\$0	
						1	
	Video Detection - Iteris Vantage EdgeConnect	LS	1	\$ 25,000.00	\$25,000	1	
Delection Upgrade				,,	020,000	\$25,000	
						1 420,000	
tersection:	ST JAMES PARK	<u> </u>				-	
	2070 ATC Controller	EA	1	e e 000 00 l	60.000		
	CCTV CAMERA	LS		\$ 6,000,00	\$6,000	! 1	
Intersection/Field	Battery Back-up System		1	\$ 12,000.00	\$12,000		
System Upgrade	Ethernet Switch	EA	1	\$ 10,000.00	\$10,000	\$31,000	
	Culetifel Swilds	EA	1	\$ 3,000.00	\$3,000		
							\$56,000
Communication							436,000
Upgrade						\$0	
	Video Detection - Iteris Vantage EdgeConnect	LS	1	\$ 25,000.00	\$25,000		
etection Upgrade						\$25,000	
ersection:	CHURCHILL AVE		L				
	2070 ATC Controller	EA	1 [\$ 6,000,00	\$0.000 T		
ntersection/Field	CCTV CAMERA	LS	1 +	\$ 12,000.00	\$6,000	- 1	
The result of the second of th	Battery Back-up System	EA	1		\$12,000	****	
System Upgrade	Ethernet Switch			\$ 10,000.00	\$10,000	\$31,000	
	7.77.00	EA	1	\$ 3,000.00	\$3,000	1	
							\$56,000
Communication							\$56,000
Upgrade						\$0	
	Video Delegia - Nada Va. /						
Madion Harma	Video Detection - Iteris Vantage EdgeConnect	LS	1	\$ 25,000.00	\$25,000		
election Upgrade						\$25,000	
rsection;	RANCHO RD		Victor	THE PARTY OF THE P		- I-	
I	2070 ATC Controller	EA I	1	\$ 6,000.00	\$6,000		
	CCTV CAMERA .	LS		\$ 12,000.00	\$12,000	1	
vslem Unorade	Battery Back-up System	EA		\$ 10,000.00		\$31,000	
Jorenn obbliage	Ethernet Switch	EA I			\$10,000 .	\$31,000	
I			-	3,000.00	\$3,000	ı	
ammunic - "							\$56,000
ommunication						222	- 7 9
Upgrade						\$0	
lection Upgrade	Video Detection - Iteris Vantage EdgeConnect	LS	1 3	25,000.00	\$25,000	\$25,000	

Corridor: BOLSA CHICA ST

	r: BOLSA CHICA ST I: HUNTINGTON BEACH						
Category	Description	Unit	Quantity	Unit Cost	Amount	Sub-tota	1 1-1
	BOLSA AVE	1 Offit	quantity	1 Unit Cost	Amount	Sup-tota	Intersection Total
	2070 ATC Controller	ĒA	1	\$ 8,000.00	\$ 8,000,00		-
Intersection/Field	CCTV CAMERA (including license)	EA	1				1
System Upgrade	TOTAL CHARLET (Including Incense)	EA -	1	\$ 12,000.00		\$20,000	1
-,	*	 			\$ -	4	
	Fiber Distribluion Unit, Splice Enclosure, and SMFO-6	 		 	\$ -	- 	
	Drop Cable + splicing	EA	1	\$ 10,000.00	\$ 10,000,00		1
	Dut 400 00 ONEO			58///23 - 15/25/46/20		4	1
Communication	Pull 100' 96 SMFO cable in pullbox adjacent to	LS	1	\$ 1,000.00	\$ 1,000.00	d .	\$90,500
Upgrade	Rancho Controller Cabinet			10 1 100		\$70 500	,
Opgrade	Install 96 SMFO cable (Rancho to Bolsa)	LF	2650	\$ 10.00			•
	Pullboxes (#6E) (Rancho to Bolsa)	EA	1	\$ 4,000.00	\$ 4,000.00		
	Puliboxes (#6) (Rancho lo Bolsa)	EA	6	\$ 3,000.00			
	Replace 2* Conduit (Rancho to Bolsa)	LF	200	\$ 55.00	\$ 11,000.00		
D.1			A		\$ -		
Detection Upgrade					5 -	\$0	
	l				\$ -	1	1
Intersection:	ARGOSY AVE						
\$40.00 - 0.00 - 0.00 V 400 V 120 V	2070 ATC Controller	EA	1	\$ 8,000.00	\$ 8,000.00	1	1
Intersection/Field					\$ -	1	
System Upgrade					\$ -	\$8,000	1
		* * * * * * * * * * * * * * * * * * * *			\$ -	1	
	Fiber Distribtulon Unit, Splice Enclosure, and SMFO-6	7.2				1	1
	Drop Cable + splicing	LS	. 1	\$ 10,000,00	\$ 10,000.00	İ	1 .
Communication	Install 96 SMFO cable (Bolsa to Argosy)	LF	1600	\$ 10.00	\$ 16,000.00	1	\$61,000
Upgrade	Pullboxes (#6E) (Bolsa to Argosy)	EA	1	\$ 4,000.00	\$ 4,000.00	\$53,000	
17/57	Pullboxes (#6) (Bolsa to Argosy)	EA	4	\$ 3,000.00	\$ 12,000,00	1	
	Replace 2* Conduit (Bolsa to Argosy)	LF	200	\$ 55,00	\$ 11,000,00	1	Ž
	1			\$ 55,00		-	
Detection Upgrade					\$ -		
					\$ -	\$0	
Intersection:	MCFADDEN AVE				\$ -		
microcolori.	2070 ATC Controller						li C
Intersection/Field	I - M. A. C.	EA	1	\$ 8,000.00			
	CCTV CAMERA (including license)	EA	11	\$ 12,000.00	\$ 12,000.00	\$20,000	
System Upgrade					\$ -	420,000	
					\$ -		
	Fiber Distribtuion Unit, Splice Enclosure, and SMFO-6	LS	1	\$ 10,000.00	£ 40,000,00		
12 10 10 10 10 10 10 10 10 10 10 10 10 10	Drop Cable + splicing		'	\$ 10,000,00	\$ 10,000,00		£70.000
Communication	Install 96 SMFO cable (Argosy to McFadden)	LF	1900	\$ 10.00		*****	\$76,000
Upgrade	Pullboxes (#8E) (Argosy to McFadden)	EA	1	\$ 4,000.00	\$ 4,000.00	\$56,000	
	Pullboxes (#6) (Argosy to McFadden)	EA	4		\$ 12,000.00	i i	
7	Replace 2" Conduit (Argosy to McFadden)	LF	200		\$ 11,000.00		
					\$ -		
Detection Upgrade					\$ -	\$0	
		j			\$ -	, ,	
ntersection:	ROBINWOOD DR						
	2070 ATC Controller	EA I	1 1	\$ 8,000.00	\$ 8,000,00		
Intersection/Field				3 0,000.00			
System Upgrade					\$ -	\$8,000	
-/					5 -		
	Fiber Distribtuion Unit, Splice Enclosure, and SMFO-6				\$ -		
	Drop Cable + splicing	LS	1	\$ 10,000.00	\$ 10,000.00		
Communication	Install 96 SMFO cable (McFadden to Robinwood)		2000				\$70,000
Upgrade	Didhoves (HCE) (MaEadas 1- O-Linnah	LF	2200		\$ 22,000.00	\$62,000	
1 A TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pullboxes (#6E) (McFadden to Robinwood)	EA	1	\$ 4,000.00		,,	
	Puliboxes (#6) (McFadden to Robinwood)	EA	5	\$ 3,000.00		1	
	Replace 2" Conduit (McFadden to Robinwood)	LF	200	\$ 55.00	\$ 11,000.00		
D. (T	\$ -		
Detection Upgrade					\$ -	\$0	
					\$ -	0-27	
	EDINGER AVE						
	2070 ATC Controller	EA	11	\$ 8,000,00	\$ 8,000.00		
	CCTV CAMERA (including license)	EA	1		\$ 12,000.00	*20.000	
System Upgrade					\$ -	\$20,000	
	İ	i			\$ -		
	Install 96 SMFO cable into Hub Cabinet (Hub Installed	10					
	with Edinger TSSP Project)	LS	1	\$ 1,000.00	\$ 1,000.00	1	22 00 kd 14 kd 20 km
	Install 96 SMFO cable (Robinwood to Edinger)	LF	1000	\$ 10.00	\$ 10,000.00	. 1	\$48,500
	Pullboxes (#6E) (Robinwood to Edinger)	EA			\$ 4,000.00	\$26,500	
	Pullboxes (#6) (Robinwood to Edinger)	EA			\$ 6,000.00		
. fi	Replace 2" Conduit (Robinwood to Edinger)	LF					
	TOPINGO & CONTOUNT (FAVORITATION TO EURIGET)	rt	100		\$ 5,500.00		
Detection Upgrade					3 -		7.6
South Spanne					5 -	\$0	
ŧ	1	- 1			\$ -		

Total

\$402,000