



SAN RAFAEL CITY COUNCIL AGENDA REPORT

Department: Public Works

Prepared by: Bill Guerin,
Director of Public Works

City Manager Approval: _____

TOPIC: FIFTH AVENUE TRAFFIC SIGNAL UPGRADES

SUBJECT: RESOLUTION AUTHORIZING THE CITY MANAGER TO SIGN PURCHASE ORDERS AND/OR AGREEMENTS WITH MIOVISION AND DC ELECTRIC GROUP FOR TRAFFIC SIGNAL UPGRADES ON FIFTH AVENUE AT: C, B, A, AND COURT STREETS

RECOMMENDATION: Adopt the Resolution authorizing the City Manager to sign purchase orders and/or agreements with Miovision and DC Electric Group for traffic signal upgrades on Fifth Avenue at: C, B, A, and Court Streets.

BACKGROUND: The majority of signalized intersections in Central San Rafael went through extensive upgrades as part of the Innovative Deployments of Enhanced Arterials (IDEA) grant program, administered by the Metropolitan Transportation Commission (MTC). The upgrades included: new traffic signal cabinets and controllers, video detection, and an Automated Traffic Signal Performance Measure (ATSPM) platform so the traffic engineering division could better monitor traffic conditions in central San Rafael.

The video detection includes travel time summaries and turning movement counts, which help the traffic engineering division make informed decisions on temporary traffic control requests, detours, and multi-modal circulation. Further, video detection allows the signals to operate with actuated timing which is more reactive and efficient than the current pre-timed system. The traffic engineering division also worked with the Department of Digital Service and Open Government to expand the fiber network downtown.

The grant funding did not cover intersection improvements on Fifth Avenue at C, B, A, or Court Streets. The signal cabinets and controllers are at the end of their life. The traffic engineering division is proposing to upgrade these intersections so that all signalized intersections in Central San Rafael operate on the same system with the same equipment.

ANALYSIS: Miovision Technologies (Miovision) has provided cameras and related technology at more than 40 intersection locations in San Rafael. Staff proposes to add these new locations using the same

FOR CITY CLERK ONLY

Council Meeting:

Disposition:

equipment in order to have a City-wide integrated traffic monitoring system. The San Rafael Municipal Code section 11.50.090 allows the City to purchase without competitive bidding under specific circumstances where:

1. Limitations on the source or the scope and nature of the contract are such that no more than one contractor is available to meet the technical specifications and/or quality considerations of the project;
2. The work is of a highly specialized nature;
3. There would be no competitive advantage to requiring bidding for the contract;
4. The cost of the work would be significantly increased, or its completion significantly delayed;
5. There exist other specific considerations justifying the waiver of the bidding requirements.

All of the exceptions apply to this procurement as Miovision is the only technology company that supplies these cameras, the technology is highly specialized, and other, inferior technology would be more expensive and harder to procure. Miovision will provide the cameras and processing equipment plus one spare set for this project at a cost of \$96,570.25. DC Electric will install the video detection equipment and city-furnished cabinets and controllers at a cost of \$26,795, or \$28,000 with a contingency. Completing these upgrades will bring the total modernized signalized intersections to 46 out of 50 locations in central San Rafael. There are plans to upgrade the remaining locations in central San Rafael with future projects.

FISCAL IMPACT: There are sufficient funds available in the Traffic Signal Maintenance Fund (#206) for the proposed labor. There are sufficient funds in the Traffic Mitigation Fund (#246) for the equipment purchase.

OPTIONS:

The City Council has the following options to consider on this matter:

1. Approve the resolution authorizing the City Manager to purchase four plus one spare Miovision cameras plus processing equipment in a total amount not to exceed \$96,570.25 and to enter an agreement with DC Electric to install the new equipment in a total amount not to exceed \$28,000.
2. Direct the Department of Public Works to modify the proposed project.
3. Direct the Department of Public Works to not proceed with the project upgrades.

RECOMMENDED ACTION: Adopt Resolution.

ATTACHMENTS:

1. Resolution Authorizing the City Manager to Sign Purchase Orders and/or Agreements with Miovision Technologies and DC Electric Group for Traffic Signal Upgrades on Fifth Avenue at: C, B, A, and Court Streets
2. Miovision quotation
3. DC Electric proposal

RESOLUTION NO.

**RESOLUTION OF CITY COUNCIL OF THE CITY OF SAN RAFAEL
AUTHORIZING THE CITY MANAGER TO SIGN PURCHASE ORDERS
AND/OR AGREEMENTS WITH MIOVISION AND DC ELECTRIC
GROUP FOR TRAFFIC SIGNAL UPGRADES ON FIFTH AVENUE
AT: C, B, A, AND COURT STREETS**

WHEREAS, the City of San Rafael desires to facilitate safe and convenient movement of vehicles, bicycles, and pedestrians within the City; and

WHEREAS, delays currently experienced by all modes could be improved with traffic signal detection; and

WHEREAS, the City has made investments in Miovision Technology (Miovision) at most other signalized intersections in Central San Rafael; and

WHEREAS, DC Electric Group is familiar with the installation of Miovision detection equipment, traffic signal cabinet upgrades, and traffic signal controller switchovers and is the City's maintenance contractor for all of its traffic signals; and

WHEREAS, Miovision Technology proposed a quote for video detection and processing equipment for \$96,570.25, a unique and sole source offer, and this agreement qualifies for a waiver of competitive bidding pursuant to San Rafael Municipal Code 2.55.100(C); and

WHEREAS, DC Electric Group provided a proposal for the installation of the new equipment at \$26,795; and

WHEREAS, Public works staff reviewed the terms of the agreement, as included with the staff report for this resolution, and found it beneficial to the community.

NOW, THEREFORE, BE IT RESOLVED, that, in consideration of the above, the City Council hereby waives the requirement of competitive bidding and authorizes the City Manager to execute purchase orders and/or agreements with Miovision Technologies to provide the City of San Rafael with video detection equipment in the amount of \$96,570.25 and with DC Electric Group for the installation of the Miovision equipment and City-furnished cabinets and controllers in the amount of \$26,795 and a contingency of \$1,005, for a total not to exceed amount of \$28,000 in forms to be approved by the City Attorney.

I, LINDSAY LARA, Clerk of the City of San Rafael, hereby certify that the foregoing Resolution was regularly introduced and adopted at a regular meeting of the City Council held on Monday, the 21st day of March 2022, by the following vote, to wit:

AYES: COUNCILMEMBERS:
NOES: COUNCILMEMBERS:
ABSENT: COUNCILMEMBERS:

Lindsay Lara, City Clerk



Quote

Miovision Technologies
137 Glasgow Street, Suite 110
Kitchener, ON N2G 4X8
Tax ID #831042346

Customer: **City of San Rafael (CA)**
Payment Term: Net 30
Shipping Term: FOB Shipping Point
Software Start Date: 10/25/2021
Software End Date: 10/24/2023
Subscription Term (Months): 24

Quote Number:	Q-14830
Account Executive:	Kyle McKenzie kmckenzie@miovision.com
Date:	9/9/2021
Valid Until:	11/3/2021
Currency:	U.S. Dollar

Bill To

City of San Rafael (CA)
Public Works Dept. P.O. Box 151560
San Rafael, California 94901
United States

Ship To

City of San Rafael (CA)
Public Works Dept. P.O. Box 151560
San Rafael, California 94901
United States

Description	Term (Months)	Qty	Price	Total
Miovision SmartLink - Wireless connectivity and sensor hub, includes ruggedized TrafficLink Antenna		5	\$3,000.00	\$15,000.00
Miovision SmartSense. Requires a SmartLink and SmartView 360 to function. SmartSense provides the computation power for Miovision's Detection and Counts products (software license required).		5	\$6,700.00	\$33,500.00
Miovision SmartView 360 - 360 degree camera including bell housing only.		5	\$2,000.00	\$10,000.00
Universal Camera Mount with Universal Hub - Camera mount used for both vertical and horizontal installs		5	\$480.00	\$2,400.00
Universal Camera Extension - 6ft extension used for both vertical and horizontal installs		5	\$400.00	\$2,000.00
Ethernet Cable - 100 ft with RJ45		5	\$160.00	\$800.00
TrafficLink Performance Measures A cloud-hosted solution that proactively surfaces inefficient operations using ATSPM data. Users also have access to 12 ATSPM metrics for detailed analysis, Travel Time information, and a before/after comparison tool to measure impact.	24	4	\$1,500.00	\$6,000.00
TrafficLink Continuous Counts Continuous multimodal traffic counts with cloud-based count storage, dashboard, reporting tools, API, configuration, and software updates.	24	4	\$1,500.00	\$6,000.00
Miovision Detection Video detection license to enable detection and actuation capability and configuration. Compatible with Miovision SmartSense.		4	\$3,000.00	\$12,000.00
TrafficLink Intersection Monitoring Real time cabinet telemetry, smart infrastructure alerts, remote cabinet device access, and video streaming & recall through the web-based TrafficLink portal.	24	4	\$390.00	\$1,560.00

Description	Term (Months)	Qty	Price	Total
Managed LTE Connectivity (2GB) Miovision device connectivity, managed Internet of Things (IoT) network, corporate firewall and 2GB of high-speed LTE connectivity per intersection per month. Customer agrees that Miovision may limit and/or charge Customer for excess or unauthorized data use.	24	1	\$600.00	\$600.00
UPS - UPS Standard		1	\$818.00	\$818.00

Subtotal (Net) : USD 90,678.00
Tax Total : USD 5,892.25
Total : USD 96,570.25

The Customer hereby agrees to order the products outlined above at the prices indicated, and acknowledges it has read, understands and agrees to be bound by the terms and conditions outlined at <http://miovision.com/terms-and-conditions>

Date:

Name:

Signature:

Select Payment Type:

Credit Card*

Purchase Order

Check (Net Term 30d)**

Bank Transfer

*Requires a Credit Card Authorization form

**Requires an approved Credit Application



July 16, 2021

City of San Rafael
Department of Public Works
111 Morpew St.
San Rafael, CA 94915

Attn: Lauren Davini

Job Name: Controller Cabinet & Video Detection Installations (City Furnished)
Job Location: 1.) 5th Ave & A (Miovision Camera Only)
2.) 5th Ave & B (Cabinet, Controller, and Miovision Camera)
3.) 5th Ave & C (Miovision Camera Only)
4.) 5th Ave & Court (Cabinet, Controller, and Miovision Camera)

Dear Lauren:

Per your request, we offer to perform the following work, based on our standard terms and conditions:

Cabinet & Controller Installation (Scope of Work Per Location):

- Construct temporary framework around existing signal cabinet and suspend in place.
- Demolish existing foundation and protect conduits and conductors in place.
- Form and pour a new foundation for the new Type OL cabinet, including two new 3" conduits (for future use) to a new DCE furnished #5 (N30) pull-box where determined by City Staff.
- Establish temporary traffic control and set intersection to Red Flash.
- Place stop signs and disconnect power to intersection (i.e. black.)
- Remove and dispose of existing CBD cabinet.
- Install new City-furnished OL Cabinet and modify conduits as necessary.
- Restore power to intersection and immediately place intersection in Red Flash.
- Terminate all remaining field conductors.
- Check all detection, signal indications, and restore intersection to full auto-operation.
 - NOTE: Existing Type 1 service to be re-mounted to new cabinet at 5th/Court.

Video Detection Installation (Scope of Work Per Location)

- Pick up City-furnished Miovision™ video detection camera, mounting brackets, and associated Smart Sense and Smart Link devices from City DPW.
- Establish minor temporary traffic control as needed.
- Install one (1) new Miovision™ camera per intersection on the pre-determined traffic signal poles.
- Install necessary Smart Sense and Smart Link components in the signal cabinet at each location.
- Furnish and install new Cat5e cable from the traffic signal cabinet to each of the new cameras (assumes conduits are accessible, free of debris, and in good working order).
- Return to meet Miovision™ representative on site (or remotely) at each location to commission the new system and confirm proper operation.

Total Labor, Material, & Equipment... \$26,795.00



Work can begin within fifteen (15) days from receipt of Notice to Proceed from the City of San Rafael upon receipt (by City) of new material.

This price is valid for 30 days and assumes work will be done directly for the City of San Rafael and excludes any potential fees/permits. Any change to the above schedule/scope of work will need to be negotiated in writing in advance of said work.

This proposal is hereby accepted on this _____ day of _____, 2021.

City of San Rafael

By: _____

Title: _____

DC Electric Group, Inc.

Tim Carter

A handwritten signature in blue ink, appearing to read 'Tim Carter', is written over a faint, larger version of the signature.

Regional Manager