



Ocean County Board of Commissioners

OFFICE OF THE
OCEAN COUNTY COMMISSIONERS

Director Barbara Jo Crea
Deputy Director Gary Quinn
Commissioner Virginia E. Haines
Commissioner John P. Kelly
Commissioner Frank Sadeghi

101 Hooper Avenue
Toms River, New Jersey
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Board Meeting Agenda

Date: December 18, 2024 - 4:00 PM
Location: Administration Building
Room 119
101 Hooper Avenue
Toms River, NJ 08754

Agenda: Awarding a Contract for the furnishing and delivery of TRAFFIC COUNT DATA PROCESSING AND REPORTING to Miovision Technologies, Inc., the lowest qualified bidder. (B2024-193)

Official Resolution#		2024001945					
Meeting Date		12/18/2024					
Introduced Date		12/18/2024					
Adopted Date		12/18/2024					
Agenda Item		h-7					
CAF #							
Purchase Req. #		B2024-193					
Result		Adopted					
COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Crea	✓				✓		
Quinn	✓				✓		
Haines	✓				✓		
Kelly	✓		✓		✓		
Sadeghi	✓			✓	✓		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Michelle I. Gunther

Clerk Of The Board

CONTRACT NO. MUST BE ON ALL PAPERS, DOCUMENTS, INVOICES, VOUCHERS
NO. **B2024-193**

RESOLUTION

December 18, 2024

WHEREAS, on November 19, 2024, pursuant to legal advertisements therefor, sealed bids were received for furnishing and delivery of TRAFFIC COUNT DATA PROCESSING AND REPORTING for the County of Ocean; State of New Jersey; and

WHEREAS, at the advertised time, responses were received from the following bidders:

Name and Address of Bidder

Miovision Technologies, Inc.
137 Glasgow Street-Suite 110
Kitchener, Ontario N2G 4X8
(519) 513-2407

Name and Address of Bidder

GridMatrix, Inc.
801 S. Barton Springs Road
9th Floor-Suite 07-117
Austin, Texas 78704
(858) 353-6258

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the lowest qualified bid, according to specifications, in each instance, be accepted, namely, MIOVISION TECHNOLOGIES, INC.

NOW, THEREFORE, BE IT RESOLVED by the BOARD OF COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract, for furnishing and delivery of Traffic Count Data Processing and Reporting for the County of Ocean, for the contract shall be one (1) year from date of award through December 17, 2025, or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15. The County reserves the right to extend the contract for one (1) additional year by mutual agreement between the County and the Contractor with no increase in base price.

A. MIOVISION TECHNOLOGIES, INC., for ten (10) items, to wit:

ITEM NOS. 1, 1A, 1B, 1C, 2, 3, 4, 5, 6 and 7.

For a Total Lump Sum Award (Item Nos. 1 - 7) of \$89,080.00.

2. Payments for the materials to be acquired by these contracts shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

3. Funds for these services shall be available within the following funding sources: Engineering Department O.E.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2024-193.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, Department of Purchasing, Department of Finance, Engineering Department and Miovision Technologies, Inc., the successful bidder.

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 TRAFFIC COUNT DATA PROCESSING AND REPORTING

B2024-193

12. Acknowledgement of Submission of Forms from Current Bid Package*

Bidders shall complete all documents and acknowledge all terms included with the bid package. All documents should be from this bid package as forms change frequently and the most updated forms are provided in this specification. The forms must not be dated or executed prior to the date of advertising. Failure to follow these instructions is cause for rejection.

Confirmed

13. Submission of Bid Package*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

PRICE TABLES

TRAFFIC COUNT DATA PROCESSING AND REPORTING

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	COMMENTS:
TRAFFIC COUNT DATA AND RECORDING						
✓ 1	Traffic Count Data Processing & Reporting, Intersection Turning Volumes, As Specified	1,500	HR	\$28.00	\$42,000.00	If studies are 24hrs or longer, the unit cost drops to \$18/hr

Introduced on: December 18, 2024

Adopted on: December 18, 2024

Official Resolution#: 2024001945

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid - TRAFFIC COUNT DATA PROCESSING AND REPORTING

Miovision Technologies, Inc.

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT

Bid No. TBD

TRAFFIC COUNT DATA PROCESSING AND REPORTING

B2024-193

Miovision Technologies, Inc.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	COMMENTS:
✓ 1A	Crosswalk Volume Hours	1,500	HR	\$2.00	\$3,000.00	\$2/hr for each crosswalk
✓ 1B	Pedestrian and Bicycle Junction Turning Volume Hours	60	HR	\$18.00	\$1,080.00	
✓ 1C	Vehicle Classification	1,000	HR	\$0.00	\$0.00	Vehicle Classification is included in all study types. If this is regarding a road volume ATR/ADT count for vehicle classification, this rate would be \$4/hr
VIDEO TRAFFIC DATA SYSTEM						

Introduced on: December 18, 2024

Adopted on: December 18, 2024

Official Resolution#: 2024001945

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 TRAFFIC COUNT DATA PROCESSING AND REPORTING

B2024-193

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	COMMENTS:
✓ 2	Video Traffic Data Collection System, As Specified	4	UNIT	\$7,500.00	\$30,000.00	This includes the full basic set up for a Scout Plus device: Scout Plus VCU, Polemount, Accessory Case, 1 Battery, and the first 12 months of Annual Connectivity
ACCESSORIES						
✓ 3	MioVision, or Equal, Rechargeable Battery	4	UNIT	\$700.00	\$2,800.00	

Miovision Technologies, Inc.

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 [MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid - TRAFFIC COUNT DATA PROCESSING AND REPORTING

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 TRAFFIC COUNT DATA PROCESSING AND REPORTING

B2024-193

Miovision Technologies, Inc.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	COMMENTS:
4	MioVision, or Equal, Battery Charger	4	UNIT	\$1,500.00	\$6,000.00	This is an external battery charger used as an accessory, the AC power charger is included in the Video Traffic Data Collection System Unit cost. I would recommend only 1 or 2 of these.
5	MioVision, or Equal, Scout Camera & Shroud (Lever Lock Mount)	4	UNIT	\$1,000.00	\$4,000.00	Scout Plus Camera Replacement. 1-Year warranty included on Scout Plus Devices
6	MioVision, or Equal, Scout Video Coil Cable	4	UNIT	\$0.00	\$0.00	Not required for Scout Plus

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Bid - TRAFFIC COUNT DATA PROCESSING AND REPORTING

[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 TRAFFIC COUNT DATA PROCESSING AND REPORTING

B2024-193

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	COMMENTS:
7	MioVision, or Equal, Scout Plus Annual Connectivity	1	YEAR	\$200.00	\$200.00	This is an annual fee per each device
TOTAL					\$89,080.00	

Miovision Technologies, Inc.

Introduced on: December 18, 2024

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[MIOVISION TECHNOLOGIES INCORPORATED] RESPONSE DOCUMENT REPORT -
 Bid - TRAFFIC COUNT DATA PROCESSING AND REPORTING

COMPLIANCE PAGES – TRAFFIC COUNT DATA PROCESSING & REPORTING

ITEM #1 – TRAFFIC COUNT DATA PROCESSING & REPORTING

COMPLIANCE
YES **NO**

DESCRIPTION:

Processing of Miovision Scout data collection output files, for intersection turning volumes including all vehicles and bicycles.

PROCESSING:

Video Processing: Web based system that allows for uploading of the recorded video from an internet connected computer. The system must be able to analyze and extract individual turning movement, volume, and vehicle classification data from the stored video for easy interaction and retrieval of information. The system must be able to analyze and extract volume and vehicle classification from each direction.

Onboard Processing: The unit must be capable of doing onboard processing for ATR/Volume counts with speed analysis with instant processing.

Uploaded Video Processing Time: The processing of both the turning movement data and the average daily traffic data must have a turnaround time of 3 business days or less.

Third Party Camera Support: Third party video must be supported.

REPORTING:

Reporting: The web based analysis must allow for the generation of standard turning movement reports and average daily traffic report with vehicle classification, including modifying the selection criteria of the start/stop time and time interval used.

Bin Size: Must be capable of providing 15 minute intervals.

Labels: Labeled locations, movement directions, dates, times and vehicle, pedestrian and cyclist volumes must be available on reports.

Peak Hour: Reporting must provide peak hour factor statistics.

✓ **ITEM #1 – TRAFFIC COUNT DATA PROCESSING & REPORTING**

COMPLIANCE

SOFTWARE

YES

NO

Software Support: Must be able to run on Windows 10 or above, or be web browser compatible for Google Chrome or Microsoft Edge.

Map Based Platform: Must utilize a map based platform to search for and access studies and reports.

Digital Upload: Must use a digital upload platform to transfer video data to the Miovision platform. The platform should allow for 100-hour uploads to ensure larger file sizes are supported.

Technical Support: Technical support must be provided during normal business hours for the duration of the contract or warranty period (whichever is later).

DATA:

Raw Data: The web based analysis must allow for the exporting of the raw detail turning movement count data and average daily traffic count data in a format such as Excel, CSV or PDF file.

Export Types: Must be able to export data in multiple formats including DSV, Excel, PDF, JAMAR JCD, and JAMAR PPD.

Data Accuracy: Minimum of 95% data accuracy on 6 vehicle classifications

SUPPORT:

General Support: Vendor must provide general maintenance services and technical support with installation, troubleshooting, and usage. In the event of upgrades and maintenance of software, vendor will make reasonable efforts to announce any scheduled downtime via email.

Support Hours: Support must be provided from 7:00 am to 4:00 pm EST.

COMPLIANCE PAGES – TRAFFIC COUNT DATA PROCESSING & REPORTING

ITEM #1 – TRAFFIC COUNT DATA PROCESSING & REPORTING (CONT'D)

COMPLIANCE

YES

NO

OPTIONS:

✓ **1A – Crosswalk Volume Hours**

Description:

Processing crosswalk volumes for intersection turning movement counts as add-on to Item 1.

✓ **1B – Pedestrian and Bicycle Junction Turning Volume Hours**

Description:

Processing pedestrian and bicycle junction turning volume hours.

✓ **1C – Vehicle Classification**

Description:

Processing vehicle classification for intersection turning movement counts as add-on to Item 1.

✓ **ITEM #2 – VIDEO TRAFFIC DATA COLLECTION SYSTEM**

COMPLIANCE
YES **NO**

DESCRIPTION:

Video Traffic Data Collection System conforming to Miovision Scout Plus, capable of output of various traffic studies.

STUDY TYPES:

Intersection Counts (TMC): The unit must be able to capture video and count data of turning movements at large urban intersections during any light and weather conditions. It must be able to include bicycles both on the crosswalks as well as on the roadway.

Roundabout Counts: The unit must be able to capture video and count data of turning movements at roundabouts during any light and weather conditions. It must be able to include bicycles both on the crosswalks as well as on the roadway.

Automatic Traffic Recorder (ATR) Counts: The unit must be able to capture video of traffic on consistently high-volume roadways, determining volume and classification of vehicles in each direction during any light and weather conditions.

Bicycle / Pedestrian studies - Junction: The unit must have the capability of capturing video of bicycle and pedestrian movement and producing counts for a pedestrian and bicycle junction.

Pathway Counts: The unit must have the capability of capturing video of bicycle and pedestrian movement for pathway studies.

Speed Studies: The unit must have the ability to capture speed data along a straight roadway.

Safety Studies: The unit must be capable of recording video for Safety Studies at an intersection.

✓ **ITEM #2 – VIDEO TRAFFIC DATA COLLECTION SYSTEM (CONT'D)**

COMPLIANCE

YES **NO**

Classifications: The video collection device must be able to accurately collect vehicle classification.

- a. 13 FHWA classifications via video upload including: Motorcycles, Passenger Cars, Single Unit (4 wheel), Buses, Single Unit Trucks (2 axles), Single Unit Trucks (3 axles), Single Unit Trucks (4+ axles), Single Trailer (4 or less axles), Single Trailer (5 axles), Single Trailer (6+ axles), Multi Trailer (5 or less axles), Multi Trailer (6 axles), Multi Trailer (7+ axles) via onboard processing
- b. 6 FHWA classifications via onboard video processing including: Motorcycles, Cars, Pick-ups & Vans, Buses, Single Unit Trucks(2-axles), Articulated Trucks via onboard processing
- c. Speed data via onboard processing
- d. Pedestrian classifications for TMCs, Roundabouts and Ped and Bike studies.
- e. Bicycle classifications for TMCs, Roundabouts, ATRs and Ped and Bike studies
- f. Custom classifications via video upload such as taxis, 5th wheel RV, minibus, single unit truck & trailer, articulated bus, multi-trailer articulated truck, moped, horse and buggy, to name a few.

SETUP:

Non-intrusive: The video device must be able to be installed off the roadway surface, so as to not create interference with the motoring public.

Installation: The video device must be able to be installed and aligned reasonable by one person in a minimal amount of time without any specialized heavy equipment.

Installation Location: The video device must be able to be installed using existing roadway objects, such as poles and signs, as mounting supports.

Installation Security: The video device must be able to be installed securely, minimizing the potential for theft.

HARDWARE:

Portable size: The video device must be portable in size to be transported in a small truck or van and hand-carried to the installation location.

✓ **ITEM #2 – VIDEO TRAFFIC DATA COLLECTION SYSTEM (CONT'D)**

COMPLIANCE

YES **NO**

HARDWARE:

All-Weather Operation: The video device must be capable of operation in all weather conditions (rain, snow, heat, wind). At a minimum, it must operate in an ambient temperature range of -4°F to 113°F (-20°C to 45°C) and have a IP55 rated enclosure.

Accessories: Include all necessary cables, SD card, adapters, chargers, software, and accessories to transfer the video from the device to a secure web location using an internet connected computer, including one Scout VCU + 12 volt Power Pack compatible with Scout Plus units with a minimum of 164 hours for the Scout VCU +, one battery charger capable of charging up to four Scout VCU + batteries simultaneously in less than ten hours with visual indicators display charging status, one mounting pole and hardware, and one video coil cable compatible with Scout Plus units.

Uploaded Video Processing Time: The processing of both the turning movement data and the average daily traffic data must have a turnaround time of 3 working days or less with optional 48 and 24 hour turnaround options.

Processing Charges: Service charges are to be calculated on a pay-as-you-go basis depending study type, classification, and hourly rate for type of study.

3rd Party Camera Support: 3rd party video must be supported.

Scout Plus Connectivity: System shall include 4 years of connectivity service.

REPORTING:

Reporting: The web based analysis must allow for the generation of standard turning movement reports and average daily traffic reports with vehicle classification including modifying the selection criteria of the start/stop time and time interval used.

Bin Size: Must be capable of providing intervals of 15 minutes.

Labels: Labeled locations, movement directions, dates, times and vehicle, pedestrian and cyclist volumes must be available on reports.

Peak Hour: Reporting must provide peak hour factor statistics.

✓ **ITEM #2 – VIDEO TRAFFIC DATA COLLECTION SYSTEM (CONT'D)**

COMPLIANCE

YES **NO**

SOFTWARE:

Software Support: Must be able to run on Windows 10 or above, or be web browser compatible for Google Chrome or Microsoft Edge.

Map Based Platform: Must utilize a map based platform to search for and access studies and reports.

Digital Upload: Must use a digital upload platform to transfer video data to our platform. The platform should allow for 100-hour uploads to ensure larger file sizes are supported.

Technical Support: Technical support must be provided during normal business hours during the duration of the contract or warranty period (whichever is later).

DATA:

Raw Data: The web based analysis must allow for the exporting of the raw detail turning movement count data and average daily traffic count data in a format such as EXCEL, CSV or PDF file.

Export Types: Must be able to export data in multiple formats such as CSV, Excel, PDF, JAMAR JCD, JAMAR PPD, UTDF (volume, lane), TES, PRN (Mio, Volume, Class), and GEOCOUNTS.

Public Access: Platform must allow customers to add data to open data sites where the public can access this data.

SUPPORT:

General Support: Vendor must provide general maintenance services and technical support with installation, troubleshooting, and usage. In the event of upgrades and maintenance of software, vendor will make reasonable efforts to announce any scheduled downtime via email.

Support Hours: Support must be provided from 7:00 am to 4:00 pm EST.

✓ **ITEM #2 – VIDEO TRAFFIC DATA COLLECTION SYSTEM(CONT'D)**

COMPLIANCE

YES **NO**

HARDWARE MINIMUM REQUIREMENTS:

Proposed solution must include the following:

Camera:

1. Field of view: Horizontal: 124 degrees Vertical: 64 degrees
2. Resolution: 1920 x 1080
3. Stabilization: Digital image stabilizer
4. Camera dehumidifier: Electronic Automatic on/off
5. Low light performance: On-board ISP delivers excellent image quality even in low light environments
6. Operating ambient temperature -4°F to 113°F (-20°C to 45°C)
7. Environmental resistance Rainproof, water resistant
8. Relative humidity 5% to 95% non-condensing
9. The lens must have capability to help reduce oil and fingerprint buildup

Video Recording:

1. Video format H.264 codec; .mp4 file format
2. Video Resolution
 - a. 1280 x 720 (High)
 - b. 960 x 540 (Standard)
 - c. 480 x 270 (Low Quality, B&W)
3. Frame rate
 - a. 30 FPS (High)
 - b. 15 FPS (Standard)
 - c. 15 FPS (Low Quality, B&W)
4. Video file size
 - a. 1200 MB/hr (High)
 - b. 300 MB/hr (Standard)
 - c. 110 MB/hr (Low Quality, B&W)

Wireless Connectivity:

1. Cellular: LTE Cat 4
2. GNSS location services: GPS, GLONASS, Galileo
3. WiFi: 802.11 a/b/g/n/ac; 2.4 GHz and 5 GHz

COMPLIANCE PAGES – TRAFFIC COUNT DATA PROCESSING & REPORTING

SUPPORTING ACCESSORIES FOR DATA COLLECTION SYSTEM

COMPLIANCE
YES **NO**

DESCRIPTION:

Supporting accessories for Video Traffic Data Collection System conforming to Miovision Scout Plus.

✓ **ITEM # 3: MIOVISION, OR EQUAL, RECHARGEABLE BATTERY:** Scout VCU + 12 volt Power Pack compatible with Scout Plus units with a minimum of 164 hours for the Scout VCU +.

✓ **ITEM # 4: MIOVISION, OR EQUAL, BATTERY CHARGER:** Battery charger capable of charging up to four (4) Scout VCU + batteries simultaneously in less than ten hours. Must include visual indicators display charging status.

✓ **ITEM # 5: MIOVISION, OR EQUAL, SCOUT CAMERA & SHROUD (LEVER LOCK MOUNT):**

System shall include one (1) mounting pole and hardware.

✓ **ITEM #6: MIOVISION, OR EQUAL, SCOUT VIDEO COIL CABLE:**

System shall include one video coil cable compatible with Scout Plus units.

✓ **ITEM #7: MIOVISION, OR EQUAL, SCOUT PLUS ANNUAL CONNECTIVITY:**

Provide one (1) year of connectivity service for the Scout Plus data collection system.