

HUMBOLDT COUNTY ASSOCIATION OF GOVERNMENTS, CA REQUEST FOR PROPOSALS



PROFESSIONAL SERVICES FOR 2026 PAVEMENT MANAGEMENT SYSTEM UPDATE



BLUE DOME
AI/ML for Visual Inspection

Swaroop Patnaik

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510.579.1838

CONFIDENTIAL
January 15, 2026

Cover Letter

Amy Eberwein, Administrative Services Officer
611 I Street, Suite B,
Eureka, CA 95501

January 15, 2026

Re: Request for Proposals for 2026 Pavement Management System Update

Dear Members of the Selection Committee:

The **safety risks** associated with the **manual inspection** of road inventory (such as pavement conditions, signs, markings, and other assets) are substantial because they require personnel to be physically present in or immediately adjacent to active traffic lanes.

Meanwhile, the use of **LiDAR** technology for inventory and assessment of assets is a powerful technology for road asset data collection, but it comes with several notable risks and disadvantages, primarily related to **cost, data handling, and environmental sensitivity**. Due to the cost of the vehicle, the data collection could be infrequent (every 2 years) and may be difficult to build a **predictable model** to ensure significant savings in maintenance cost and budget planning.

These safety risks and cost of data handling factors are the primary reasons why modern public works agencies are rapidly adopting high-speed, automated, vehicle-mounted data collection systems.

Blue Dome changes the paradigm. Blue Dome's AI platform processes ordinary video captured by off-the-shelf devices to inventory, classify, track and help maintain critical infrastructure. Blue Dome provides that service to its customers, along with pavement and sign reflectivity assessments and many additional features, at higher margin and significantly lower cost than current market participants. All in a more safe, reliable, efficient and helpful AI-driven approach.

The Blue Dome automated processes provide many benefits:

1. Improves accuracy, productivity, service, and quality with 100% coverage
2. Reduces personnel exposure and risk of injuries
3. Increases speed of desired deliverables
4. Provides cost effective solutions
5. Advances innovations into implemented solutions
6. Promotes a culture of innovation

Blue Dome Mission, Vision and Strategy

- **Mission** - Improving Safety, Sustainability, Transparency, and Quality of Life Around the World
- **Vision** - Helping people make transportation infrastructure better, safer, and more efficient in order to raise

BLUE DOME

AI for Visual Inspection

800 West El Camino Real, Suite 180
Mountain View, CA 94040

their productivity and comfort

- **Strategy** - Providing effective & efficient road monitoring service using visual AI, through partnership with global firms who share our goals and values

Sample Video: <https://youtu.be/zLZM6ar4Nog>

Our recent projects demonstrate both the versatility and impact of our solution:

Project Highlights & Industry Validation

- **International Recognition:** Our Signs & Retroreflectivity work in Tokyo has generated strong internal momentum at 3M, with a team member stating: *"JP team is pushing forward to make this happen. It's a good sign. We are also getting interest from other 3M countries."*
- **Pavement Performance:** We successfully delivered the Pavement Management Program report for City of Piedmont, performing extensive PCI & IRI analysis. The consulting firm managing the project deemed it *"very successful."*
- **Cutting-Edge Safety:** We are expanding safety applications. The City of Mountain View is currently proposing our system to Caltrans for the video-based identification of manhole and utility covers immediately following paving—a vital safety improvement.
- **Caltrans Engagement:** We have successfully completed several projects with Caltrans and have recently completed work in Solano County.
- **Comprehensive Asset Management:** With the City of San Carlos, we hold a multi-year contract covering Signs, Retro analysis, and condition assessment. Last year, we used a single video capture to complete a comprehensive survey, identifying crosswalk tripping hazards, illegal curb markings, legends, and bike lanes.

Goals

Blue Dome understands that the Humboldt County Association of Governments (HCAOG) has utilized the MTC StreetSaver as the Pavement Management System. We will capture data, provide 100% coverage of all the seven cities and the Unincorporated County and prepare a report to include overlays compatible with GIS centerline already in place. The PMP will help educate policy makers on the current pavement network condition and the impact of different funding scenarios.

Thank you for your consideration,

Blue Dome Technologies Corporation



Swaroop Patnaik

CEO & President

Email: swaroop.patnaik@bluedometech.com

800 W El Camino Real, #180, Mountain View, CA 94040

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1. Table of Contents

Cover Letter 1

2. Understanding of Project 4

3. Consultant Qualifications and Experience 4

4. Approach 8

5. Work Plan and Schedule 10

6. Cost Proposal..... 11

7. Required Attachments 12

8. Conflict of Interest..... 13

2. Understanding of Project

Introduction

The Humboldt County Association of Governments (HCAOG) is seeking to update the Pavement Management System (PMS) for eight local jurisdictions, encompassing both public roads and Tribal Lands. The project covers approximately 1139 centerline miles, as detailed in the table below.

Jurisdiction	Approximate number of centerline miles of paved roads
City of Arcata	64
City of Blue Lake	7.1
City of Eureka	114.9
City of Ferndale	9.3
City of Fortuna	46.2
City of Rio Dell	14.3
City of Trinidad	2.9
Unincorporated County	854*

All work will be performed in strict accordance with the criteria established in the **MTC PMS User Guide**. The scope of services includes:

- **Project Management and Reporting:** Ensuring timely delivery and communication.
- **Data Collection:** Systematic field assessment and condition reporting.
- **Strategy Review:** Evaluation of maintenance and rehabilitation (M&R) strategies.
- **Final Reporting and Presentation:** Delivering comprehensive findings to the board/stakeholders.
- **Software Integration:** Entering all results into HCAOG's online **StreetSaver** platform.
- **Training:** Facilitating user training for local jurisdictional staff.

3. Consultant Qualifications and Experience

a) Firm

Blue Dome is a Delaware based C-Corporation established in 2018. We are a specialized infrastructure technology firm dedicated to modernizing pavement assessment through high-fidelity data capture and advanced safety analytics.

Unlike conventional manual inspection firms, Blue Dome utilizes a proprietary technology suite designed to increase data accuracy while reducing field-exposure time for personnel. Our firm is currently in a high-growth phase, representing a solid foundation of municipal and state-level contract success.

- **Litigation:** Blue Dome has no past or pending litigation regarding the provision of services equivalent to those set forth in this RFP.
- **Fraud Convictions:** Blue Dome has no history of fraud convictions related to public contracts.
- **Debarments/Suspensions:** Blue Dome has never been debarred, suspended, or otherwise deemed ineligible to participate in public contracts.
- **Regulatory Violations:** Blue Dome has no violations of local, state, or federal industry or regulatory requirements.
- **Financial Interests:** Blue Dome does not hold a controlling or financial interest in any other firms or organizations, nor is Blue Dome owned or controlled by any other firm or organization.

Firm Qualifications & Experience

Blue Dome's qualifications are built on a foundation of "innovation meeting regulation." Our technology represents a modern leap in infrastructure safety, producing high-resolution data that is **fully compatible with the StreetSaver® Pavement Management Program**.

Qualifications for Performing Consulting Services: Blue Dome specializes in high-speed, automated pavement distress identification. Our systems are calibrated to the **ASTM D6433 standard**, ensuring that the data we collect translates seamlessly into the **Pavement Condition Index (PCI)** rankings required for Humboldt County's long-term planning and MTC reporting.

Relevant Project Experience:

- **Caltrans (California Department of Transportation):** Our technology has been accepted and utilized by Caltrans, meeting the stringent data integrity and safety standards required by the State of California.
- **3M Global Partnership (Tokyo, Japan):** In a strategic partnership with 3M, Blue Dome implemented its Sign assessment technology to improve safety metrics in Tokyo. This project demonstrated our ability to handle complex, large-scale data environments.
- **City of Piedmont:** Blue Dome performed comprehensive pavement assessments (PCI & IRI) for this California municipality, providing the high-resolution data necessary for long-term planning.

b) Key Personnel

Blue Dome has assembled a premier project team that combines decades of conventional civil engineering expertise with the architects of the industry's leading pavement management software.

Swaroop Patnaik – Project Manager / Lead Engineer

- **Role:** Oversight of data collection, project scheduling, and quality control.
- **Experience:** 30+ years in Project Management; 7+ years in Infrastructure Management.
- **Qualifications:** Mr. Patnaik specializes in the deployment of advanced infrastructure technologies within public sector frameworks. He has successfully navigated the technical and regulatory requirements of state and local agencies to ensure data integrity.

- **Key Achievement:** Led the technical integration for high-profile projects including **Caltrans, 3M**, and the **Cities of Mountain View and Piedmont**. He ensured 100% data compatibility with existing government systems and adherence to California state reporting standards.

Sui Tan, PE – StreetSaver Analysis & Strategy Review

- **Role:** Data entry oversight, M&R strategy optimization, and long-term budget modeling.
- **Experience:** Licensed Professional Engineer (Civil); 35+ years specializing in Transportation Asset Management.
- **Qualifications:** As a leading authority on pavement preservation, Mr. Tan specializes in the implementation of Pavement Management Systems (PMS) and investment analysis.
- **Key Achievement:** Mr. Tan recently retired from the **Metropolitan Transportation Commission (MTC)**, where he served as the **Program Manager for the StreetSaver software from 2002 to 2025**. He was the primary architect in developing StreetSaver into the most utilized pavement management software on the West Coast, adopted by over 500 local agencies. His involvement ensures Humboldt County's data will be optimized for MTC reporting and funding eligibility.

Raymond Kinser – GIS & Data Integration Specialist

- **Role:** Geospatial Mapping and Software Integration.
- **Experience:** 30+ years in Geographic Information Systems (GIS).
- **Qualifications:** Mr. Kinser has substantial experience managing large-scale infrastructure datasets and translating raw field data into actionable GIS layers.
- **Key Achievement:** Developed the proprietary data-mapping protocol that allows Blue Dome's high-speed automated data to be ingested seamlessly into standard municipal Asset Management Systems. His work ensures that the "unconventional" efficiency of Blue Dome's technology results in "conventional" ease-of-use for County GIS staff.

Project Organization and Communication

Organizational Chart

The following chart outlines the specialized roles and reporting structure of the Blue Dome team. Our flat organizational structure ensures that HCAOG staff has direct access to senior decision-makers and technical leads throughout the project lifecycle.

- **Project Lead:** Swaroop Patnaik (Contractual & Technical Oversight)
- **Technical Experts:** Sui Tan, PE (StreetSaver/MTC Alignment) & Raymond Kinser (GIS/Data Architecture)

Communication Channels

Blue Dome prioritizes "Zero-Friction" communication. We understand that HCAOG requires timely updates to keep regional stakeholders informed.

- **Primary Point of Contact (POC):** Swaroop Patnaik will serve as the single point of contact for HCAOG's Project Manager. This simplifies communication and ensures accountability.
- **Kick-off Meeting:** We begin with a formal virtual or in-person kick-off to align on data collection schedules, HCAOG's specific StreetSaver database versions, and regional priorities.

- **Bi-Weekly Progress Reports:** Blue Dome will submit brief, written status updates via email every two weeks. These reports will outline:
 - Percentage of network surveyed to date.
 - Data processing status.
 - Upcoming milestones for the next period.
- **Collaborative Data Review:** Mid-way through the project, we will hold a "Data Sanity Check" meeting with HCAOG staff. We will present a sample of the automated distress data to ensure the formatting meets the County's expectations before the final StreetSaver import.

Problem Solving & Quality Assurance

Given the innovative nature of our assessment technology, we have a proactive protocol for addressing potential challenges:

- **Technical Calibration Issues:** If anomalies are detected in the automated data capture (e.g., due to unique coastal weather or road textures in Humboldt), **Swaroop Patnaik** and **Raymond Kinser** will conduct a manual validation of the raw imagery within 48 hours to recalibrate the sensors.
- **StreetSaver Integration Hurdles:** Should any issues arise during the database upload, **Sui Tan**—the architect of the StreetSaver program—will lead the troubleshooting. His deep internal knowledge of the software ensures that any data-mapping conflict is resolved at the source, rather than through trial and error.
- **Conflict Resolution:** Any contractual or scope-of-work concerns will be addressed immediately via a "Direct Access" phone call between Swaroop Patnaik and HCAOG management. We aim for same-day resolution on all administrative queries.

Blue Dome team is proud of our 100% project success rate. The following references represent agencies where we have successfully deployed our pavement assessment technology and delivered high-fidelity data integrated with municipal management systems.

Reference 1: City of Piedmont, CA

- **Agency Type:** Municipal Government
- **Project Dates:** May 2025 – August 2025
- **Nature of Work:** Performed a comprehensive city-wide pavement condition survey using Blue Dome's automated assessment technology. Work included the delivery of high-resolution imagery with PCI and IRI data formatted for seamless ingestion into the City's Pavement management framework (StreetSaver).
- **Professional Staff:** Swaroop Patnaik (Project Manager), John Wanger (Project Manager, Coastland/DCCM).
- **Contact Information:**
 - **Name/Title:** John Wanger, PE, Principal Advisor, Coastland/DCCM
 - **Address:** 1400 Neotomas Avenue, Santa Rosa, CA 95405
 - **Phone:** 707.636.7023
 - **Email:** jwanger@dccm.com

Reference 2: Eagan, MN

- **Agency Type:** Municipal Government

- **Project Dates:** August 2025 – December 2025
- **Nature of Work:** Conducted a detailed pavement analysis focusing on residential and arterial road networks. The project prioritized the identification of specific distress types to optimize the City's Improvement Plan.
- **Professional Staff:** Swaroop Patnaik (Project Manager), Darwin Dahlgren (Project Manager, GoodPointe Technology, LLC)
- **Contact Information:**
 - **Name/Title:** Darwin Dahlgren, CEO GoodPointe Technology, LLC
 - **Address:** 6041 Stelhorn Road, #15863, Fort Wayne, IN 46885
 - **Phone:** 612-670-1024
 - **Email:** ddahlgren@goodpointe.com

Reference 3: San Joaquin County, CA

- **Agency Type:** County Government (Similar to HCAOG)
- **Project Dates:** – June 2024 – April 2025
- **Nature of Work:** Executed a large-scale county-level assessment across diverse rural and urban terrains. This project demonstrated our technology's ability to handle high-volume data and export it into a standardized format compatible with county-wide GIS and reporting systems.
- **Professional Staff:** Swaroop Patnaik (Project Manager).
- **Contact Information:**
 - **Name/Title:** Najee Zarif, Deputy Director Engineering
 - **Address:** 1810 E Hazelton Ave, Stockton, CA 95205
 - **Phone:** 209-468-3053
 - **Email:** nzarif@sjgov.org

4. Approach

Philosophy and Methodology

Our Philosophy and Methodology has always been based on long-term thinking. Our vision is improving safety with minimal traffic disruptions. The ease of data collection and assessment provides a pathway for significant reduction of maintenance cost as well as assessment of all other assets from the same data that may help reducing the litigation and insurance cost.

- **Collaborative Integration:** We act as an extension of County staff, ensuring frequent touchpoints with the Project Manager.
- **Data-Driven Decisions:** Our approach relies on AI/ML video processing with manual verification and to ensure every recommendation is backed by local data (images). Since our data analysis covers 100% of the roadway, it provides a much better clarity to the pavement assessment.
- **Local Sensitivity:** We recognize Humboldt's unique geographic and regulatory environment (e.g., Coastal Commission oversight or rural infrastructure challenges).

The Management Plan: Structure and Accountability

We provide transparency at every step with:

- **Single Point of Contact:** A dedicated Project Manager (PM) will handle all communication to avoid any challenges of potential miscommunications.
- **Quality Assurance/Quality Control (QA/QC):** Sui Tan will be responsible to review all deliverables before they reach the County.
- **Communication Protocol:** We propose a bi-weekly update and a shared project dashboard so the County has real-time visibility.

Proposed Scope of Work & Specific Subtasks

TASK 1: KICK-OFF MEETING, PROJECT MANAGEMENT, AND REPORTING

- **Task 1.1: Project Launch Meeting.** Aligning goals, timelines, and identifying key stakeholders within the County.
- Understanding procedures for pavement maintenance and available resources, historical expenditure levels and desired service levels.
- **Deliverable** – Technical memorandum summarizing the results of the meeting.
- **Task 1.2: Project coordination and management.** Analyzing previous studies, county codes, or historical data to avoid duplicating effort.
- Establish procedures to maintain good and clear communication with HCAOG project staff regarding schedule and budget.
- **Deliverable** – Schedule of project meetings and project milestones.
- **Task 1.3 Deliverable** – Monthly status updates and invoices.

TASK 2: RISK MANAGEMENT

- **Subtask 2.1: Stakeholder Engagement.** Conducting interviews or workshops with local community groups, tribal representatives, or business leaders.
- Provide appropriate safety equipment to data collection crew.
- **Deliverables** – Written agreement of adherence to the above task.

TASK 3: DATA COLLECTION AND REPORTING

Blue Dome suggests an initial pilot of a small section to fine tune the process and ensure the deliverables meet the County's expectations.

- Deploy Blue Dome mobile imaging systems for pavement assessment.
- Perform condition surveys of all 1139 centerline miles of streets.
- Update additional roads that have been annexed since the last update.
- We follow the MTC Pavement Distress Identification Manual.

Data Processing, QA/QC, and Integration

- Process field data through Blue Dome's AI platform for automatic distress and asset classification.
- Validate accuracy through random QA samples and cross-referencing with historical PMP data.
- All data collected first submitted via Excel spreadsheet for staff review.
- After approval, data entered to existing PMS database and also available as a ESRI shapefile.
- Load data into the StreetSaver, maintaining data integrity and relational links.

- Generate PCI and condition reports for all road segments.
- Conduct cost-benefit and budget-driven analyses.
- Produce maintenance prioritization and rehabilitation schedules.
- Prepare the County’s work plan with cost projections.

Task 3.1 Deliverables – Inventory and condition information for each paved road and street by jurisdiction.

Task 3.2. Deliverables – Photographs of each condition throughout the county.

Task 3.3 Deliverables – Data entered into PMS database, and provided in GIS format.

TASK 4 – REVIEW MAINTENANCE AND REHABILITATION STRATEGIES

- Review M&R strategies with local staff.

Task 4.1 Deliverables – Maintenance and rehabilitation decision trees.

TASK 5 – FINAL REPORTS

- Provide budgetary analysis and funding scenarios for each seven cities and county.

Task 5.1 Deliverables – Draft and final reports.

Task 5.2 Deliverables – Updated PMS database.

TASK 6 – PRESENTATION OF COMPLETED PAVEMENT MANAGEMENT SYSTEM UPDATE

- Present the PMS update to TAC and HCAOG Board.

Task 6.1 Deliverables – TAC presentation (PowerPoint or similar).

Task 6.2 Deliverables – HCAOG Board presentation.

TASK 7 – TRAINING

- Conduct hands-on training sessions on all aspects of StreetSaver Program.

Task 7.1 Deliverable – Training manuals.

5. Work Plan and Schedule

- | | |
|---|---------------------|
| • TASK 1. KICK-OFF MEETING, PROJECT MANAGEMENT, AND REPORTING | Mar 2026 |
| • TASK 2. RISK MANAGEMENT | Apr 2026 – Jun 2026 |
| • TASK 3. DATA COLLECTION AND REPORTING | Jun 2026 – Dec 2026 |
| • TASK 4. REVIEW MAINTENANCE AND REHABILITATION STRATEGIES | Jan 2027 – Mar 2027 |
| • TASK 5. FINAL REPORTS | Mar 2027 – Apr 2027 |
| • TASK 6. PRESENTATION OF COMPLETED PAVEMENT MANAGEMENT SYSTEM UPDATE | May 2027 |
| • TASK 7. TRAINING | Jun 2027 |

The final work plan and schedule will be provided after Task 1.2 as mentioned above

Blue Dome is committed to an efficient, high-quality project delivery. Our timeline is firmly set, and our process incorporates a critical pilot phase to ensure alignment before full deployment.

6. Cost Proposal

Fee Proposal Blue Dome proposes a **Firm Fixed-Price (Lump Sum)** of **\$ 158,502** for the Humboldt County PMS Update. This fee is all-inclusive of labor, equipment, travel to jurisdictions/Tribal Lands, and administrative costs.

To assist HCAOG in its evaluation, we have provided a breakdown of this Lump Sum by major project task below:

Task Item	Activity Description	Subconsultant Task	Total Fixed Cost
Task 1	Project Management & Jurisdictional Coordination (Includes kick-off meetings with 8 jurisdictions and Tribal stakeholders)	No	\$12,500
Task 2	Field Data Collection: Urban/Local Roads (MTC-Compliant assessment of 284.4 CLM)	Yes/No*	\$36,972
Task 3	Field Data Collection: Unincorporated & Tribal (MTC-Compliant assessment of 854.0 CLM)	Yes/No*	\$81,130
Task 4	StreetSaver Analysis & Strategy Review (Data entry, M&R strategy optimization, and budget modeling)	Yes/No	\$14,200
Task 5	Final Reports, Presentations & Training (Draft/Final reports and facilitating HCAOG staff training)	Yes/No	\$8,500
Direct Costs	Mobilization & Travel (Calculated per Caltrans Travel Guide for Humboldt County)	No	\$5,200
TOTAL	Fixed-Price Lump Sum Proposal (not to exceed)		\$158,502

The amounts listed above represent the total fixed cost for each deliverable. Invoicing will be submitted monthly based on the percentage of completion for each task, ensuring HCAOG only pays for progress made toward the final Lump Sum total.

Professional Hourly Rate Schedule (Estimates)

Role	Rate	Level of Expertise
Project Manager	\$275/hr	30+ years exp; handles contract, 8-jurisdiction politics, and final reports.

Role	Rate	Level of Expertise
Senior Pavement Engineer	\$240/hr	Professional Engineer (PE); performs the strategy review and budget modeling.
GIS / Data Analyst	\$200/hr	Manages the StreetSaver Online uploads and spatial data mapping.
Senior Data Collector	\$110/hr	Experienced data collector who understands MTC distress types and quality control.
Junior Tech / Data Entry	\$85/hr	Assists with manual data entry and basic field support.
Administrative / Clerical	\$95/hr	Meeting minutes, document formatting, and billing.

Assumed Hours per Task (Based on your 1,138.4 miles)

To arrive at the **\$158,500** Lump Sum suggested, here is how the hours were distributed:

Task 1: Project Management (~50–60 hours)

- Needs about 1.5 hours per week over a 12-month project lifecycle, plus time for the initial 8-jurisdiction kick-off.
- Math: $55 \text{ hours} \times \$225/\text{avg} = \sim \$12,500$.

Tasks 2 & 3: Field Data Collection (~800–900 total man-hours)

- This is the bulk of the work. For 1,138 miles, assuming a crew can rate **10–15 miles per day** (considering Humboldt's terrain and rural spread), you are looking at roughly **80–90 days** of field time.
- Math: $850 \text{ hours} \times \$139/\text{avg (Tech Rate)} = \sim \$118,102$.

Task 4: StreetSaver Analysis (~70–80 hours)

- Involves a Pavement Engineer reviewing the "Maintenance and Rehabilitation" (M&R) strategies and running budget scenarios for each of the 8 jurisdictions.
- Math: $75 \text{ hours} \times \$190/\text{avg} = \sim \$14,250$.

Task 5: Final Reports & Training (~40–50 hours)

- Drafting 8 summary reports plus one county-wide report, and conducting a 4-hour training session.
- Math: $45 \text{ hours} \times \$190/\text{avg} = \sim \$8,500$.

7. Required Attachments

(a) Attached D is attached in the email.

(b) Team Key Team Members:

Swaroop Patnaik

Project Manager

Swaroop is the Founder and CEO of Blue Dome. He also founded Ficus Computer Engineering, a Silicon Valley-based technology solutions provider which he led for over 20 years and which built products for VISA, KLA-Tencor, Marubeni Corporation, SAP Labs, and HP. Prior to Ficus, Swaroop

worked for NASA at Stanford University, where he was responsible for efficient storage and analysis of imaging data from the Hubble Telescope.

He has a BS in Mechanical Engineering from REC/NIT Rourkela, India and a MS in Systems from SUNY Buffalo.

Sui Tan

StreetSaver Analysis & Strategy Review

An accomplished civil engineer with approximately 35 years of experience, he specializes in transportation asset management. His expertise includes pavement management system implementation, data quality and performance management, investment analysis, and the integration of PMS with pavement preservation.

He recently retired from the Metropolitan Transportation Commission (MTC), where he **served as the program manager for the StreetSaver software from 2002 to 2025**. He was responsible for developing the MTC's StreetSaver into the most popular pavement management software on the West Coast, used by over 500 local agencies. His career also includes various engineering and management roles at Caltrans, where he assisted local agencies in securing federal funding. At the regional level, Sui **led the San Francisco Bay Area's Local Streets and Roads (LS&R) needs assessments from 2002 to 2025**, successfully securing funding that grew from \$350 million to over \$10 billion for road maintenance.

He has a BS, Civil & Environmental Engineering, University of Wisconsin, Madison.

Raymond Kinser

GIS & Data Integration Specialist

Raymond is the Founder and President of CCS, Inc. and has almost thirty years of GIS experience. In the years since CCS, Inc. was founded, Raymond has become widely recognized as an expert in his field. He has substantial experience in computer modeling and GIS applications. Raymond is responsible for product integration, selection, and project management. As a project manager, Raymond excels in his ability to keep on top of the details while also maintaining focus on the big picture.

8. Conflict of Interest

Blue Dome Technologies Corporation hereby warrants and covenants that it is in full compliance with the requirements set forth in the RFP. Specifically:

- No official or employee of the Humboldt County Association of Governments (HCAOG) has been employed or retained to solicit or assist in procuring the Consultant Services Agreement.
- No business entity in which an HCAOG official holds an interest has been utilized for the procurement of this agreement.
- Blue Dome Technologies Corporation further covenants that no such person will be employed in the performance of the resulting Consultant Services Agreement without immediate written disclosure to HCAOG.

CONSULTANT SERVICES CONTRACT BETWEEN THE HUMBOLDT COUNTY ASSOCIATION OF GOVERNMENTS AND Blue Dome Technologies Corporation FOR

This is a contract, entered into on _____, **2025**, in Eureka, California, between the HUMBOLDT COUNTY ASSOCIATION OF GOVERNMENTS, hereinafter called HCAOG, and Blue Dome Technologies Corporation, hereinafter referred to as CONSULTANT.

HCAOG may retain independent contractors to perform special, technical, expert, or professional services. Consultant is equipped, staffed, licensed, and prepared to provide such services.

HCAOG and CONSULTANT agree as follows:

1. CONSULTANT'S DUTIES:

A. Term of agreement. Consultant is hereby engaged to provide services for the _____.

Work shall commence upon the date of last of the two parties signing this contract and shall thereafter be diligently pursued to completion.

B. Standards of Performance

1. Standard of Care. The standard of care for all professional services performed or furnished by Consultant under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality.
2. Accuracy of Services. HCAOG shall not be responsible for discovering deficiencies in the technical accuracy of Consultant's services. Consultant shall correct any such deficiencies in technical accuracy without additional compensation except to the extent such corrective action is directly attributable to deficiencies in HCAOG-furnished information or the actions or inactions of any third party. However, HCAOG shall be responsible for, and Consultant may rely upon, the accuracy and completeness of all requirements, programs, instructions, reports, data, and other information furnished by HCAOG to Consultant pursuant to this Agreement. Consultant may use such requirements, programs, instructions, reports, data, and information in performing or furnishing services under this Agreement.

C. Scope of Work. All provision of services under this contract shall be performed in conformance with the agreed upon Scope of Work attached as Exhibit 'A' and the Consultant's cost proposal, which is attached hereto as Exhibit "B", both of which are incorporated herein by this reference.

D. Amendment of Scope of Work. HCAOG shall have the right to amend the Scope of Work within the contract by written notification to the Consultant. In such an event, the compensation and time of performance shall be subject to renegotiation upon written request of either party to the contract and a written change order executed by both parties ("Change Order") to the Scope of Work which Change Order shall set forth the change in the work, the adjustments in the fee, time of performance, and other changes consistent with and necessitated by the change in work. Consultant shall be

entitled to receive full payment for all services performed and all costs incurred to the date of receipt of written notification. Upon successful completion of the work described in Exhibit "B" cost proposal, this contract may be amended to include _____. A contract amendment will be processed outlining the specific scope of work, cost, and timeline for _____.

- E. Personnel. Consultant shall furnish sufficient qualified personnel to commence work upon execution of this contract, and to complete all work within the schedule period generally specified in the Consultant's proposal and the final scope of work by final completion date of _____ subject to a Force Majeure Event. The parties expressly condition the performance of their duties hereunder on the nonoccurrence of a Force Majeure Event. No party shall be liable for any loss or damages whatsoever arising out of any delay or failure in the performance of its obligations pursuant to this Agreement to the extent such delay or failure results from events beyond the reasonable control of that party that impair such party's ability to perform its obligations hereunder, including but not limited to acts of God, hostilities, accident, fire, flood, strikes, lockouts, industrial disputes, shortages of fuel (a "Force Majeure Event").
- F. Correction of Work. Consultant shall provide professional services in a reasonably timely manner, as identified in this Agreement and the Scope of Work. Consultant shall deliver to HCAOG Deliverables as called for in the Scope of Work. HCAOG shall complete its acceptance review within ten (10) business days of receiving each Deliverable (the "Review Period"). HCAOG agrees to provide Consultant with written notice of the result(s) of their review within the Review Period. The basis for acceptance, acceptance with rework and/or rejection shall be as indicated in the Scope of Work, unless superseded by Technical Data provided to and accepted in writing by HCAOG and Consultant. If Consultant does not receive written notice within the Review Period, or if HCAOG uses the Deliverable, then the Deliverable shall be deemed accepted as of the first date of either of these events.
- G. Completion of Work. Consultant shall be relieved of the duty to complete work only if a) the contract is terminated under Section 3 (I) or b) should HCAOG fail to make timely payments under the terms of this contract or, c) failure of the Consultant to receive accurate data and/or information from HCAOG or third parties in a timely manner.
- H. Contract Products. The Consultant shall submit the Deliverables as detailed in the Scope of Work. Consultant shall provide electronic files suitable for reproduction of all products to become the property of HCAOG.
- I. Title to Documents. Title to all graphic design files, video files, hard drives as required by the Project, plans, specifications, maps, estimates, reports, manuscripts, drawings, descriptions, equipment, and other final work products compiled by the Consultant under the contract shall be vested in HCAOG, none of which shall be used in any manner whatsoever, by any person, firm, corporation, or agency without the expressed written consent of HCAOG.
- J. Employment Practices. Consultant shall not discriminate in its performance under the contract either directly or indirectly on the grounds of race, color, religion, sex, age,

disability, or national origin in their employment practices, and shall take affirmative steps to ensure that applicants are employed, and employees are treated during employment without regard to the aforesaid factors. The Consultant will comply with the regulations of the Department of Transportation relative to nondiscrimination in federally assisted programs of the Department of Transportation (Title 49, Code of Federal Regulations, Part 21).

- K. Records of Performance. Consultant shall maintain complete and accurate records of all payrolls, expenditures, disbursements, and other cost items charged to HCAOG or establishing the basis for an invoice, for a minimum of three (3) years from the date of final payment to Consultant. All such records shall be clearly identifiable. Consultant shall allow HCAOG representatives to inspect, examine, copy and audit such records during regular business hours upon 24 hours' notice.

2. HCAOG'S DUTIES:

HCAOG agrees to pay the Consultant for the time and materials designated in the cost proposal, previously referenced as Exhibit "B" and incorporated herein, with the total fee not to exceed **\$ 158,502.00.**

HCAOG shall make progress payments to Consultant, based upon Consultant's submittal of monthly invoices, certifying to partial completion of the work. HCAOG shall pay Consultant within 30 days following the date of each applicable invoice. If HCAOG contests or questions any invoice, HCAOG will contact Consultant within such 30-day period. Invoices will not be paid more frequently than on a monthly basis.

3. GENERAL CONDITIONS:

A. Time.

1. Time is of the essence of this agreement. Consultant shall complete all work under this contract on or before June 30, 2027 subject to, as set forth above, to a Force Majeure Event. A written amendment to extend the completion date may be executed upon agreement from both parties.

B. Insurance.

1. Consultant shall take out and maintain, throughout the period of this agreement, comprehensive general liability insurance with minimum limits of \$1,000,000.00 combined single limit (CSL), covering all bodily injury and property damage arising out of its operation under this agreement.
2. Consultant shall provide automobile insurance covering all bodily injury and property liability incurred during the performance of this agreement with minimum coverage of \$1,000,000.00 per accident, combined single limit (CSL). Such automobile insurance coverage shall include non-owned vehicles.
3. Consultant shall take out and maintain errors and omissions insurance to protect HCAOG from damage or loss to the extent caused by any negligent act, error or omission of Consultant or any person employed by Consultant. Such insurance shall be maintained in full force and effect during this entire term of this agreement in an amount not less than \$500,000.00.

4. The Consultant shall, throughout the period of this contract, maintain in full force and effect a policy of workers compensation insurance covering all its employees and volunteers as required by the State of California.
 5. Each such policy of insurance required shall not be cancelled except after thirty (30) days with prior written notice from HCAOG.
 6. HCAOG shall be named as an additional insured on the general liability and automobile liability policies.
- C. Waiver or Modification Ineffective Unless in Writing. No waiver or modification of this contract or of any covenant, condition, or limitation herein contained shall be valid unless in writing and duly executed by the party to be charged therewith. No oral understanding or agreement not incorporated in this contract is binding on either of the parties.
- D. Relationship of Parties. The parties intend that Consultant, in performing services herein specified, shall act as an independent contractor and shall have control of the work and the manner in which it is performed. Consultant shall be free to contract for similar services to be performed for others while under contract with HCAOG. Consultant is not to be considered an agent or employee of HCAOG and is not entitled to participate in any pension plans, workers' compensation insurance, or similar benefits that HCAOG provides for its employees. Consultant agrees to furnish at its own expense all tools, equipment, services, labor and materials necessary to complete all requirements of this contract.
- E. Laws to be Observed. Throughout the term of this agreement, the Consultant shall use the standard of care in its profession to keep themselves fully informed of and shall make every reasonable effort to comply with applicable state and federal laws and county and municipal ordinances and regulations which in any manner affect those engaged or employed in the work, the use of equipment, safety requirements, or the materials used in the work, or which in any way affect the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. Consultant shall at all times make every reasonable effort to observe and comply with, and shall cause all their agents, subcontractors, and employees to make every reasonable effort to observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees of bodies or tribunals having any jurisdiction or authority over the work. If Consultant becomes aware of a conflict of such laws, Consultant will contact HCAOG in writing, and the parties shall work cooperatively to resolve the conflict.
- F. Severability. Any provision or part of the contract held to be void or unenforceable under any law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon HCAOG and Consultant, who agree that the contract shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.
- G. Attorneys' Fees and Costs. If either party initiates any action at law or in equity to enforce or interpret the terms and conditions of this contract, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs in addition to any other relief

to which it may otherwise be entitled. The parties unconditionally and irrevocably waive their respective rights to a jury trial of any claim or cause of action arising directly or indirectly out of, related to, or in any way connected with, the performance or breach of the agreement, the relationship that is being established between them, or the transactions contemplated in the agreement.

- H. Notices. All notices required or provided for under this contract shall be in writing and delivered in person or sent by certified mail, postage prepaid or by reputable overnight delivery service. Each notice shall be deemed given upon receipt of such notice by the recipient party. Any such notice shall be delivered in the following manner:

Debbie Egger, Interim Executive Director

Humboldt County Association of

Governments 611 I Street, Suite B,

Eureka, CA 95501

Notices required to be given to Consultant shall be addressed to the following:

Swaroop Patnaik

800 W El Camino Real, #180

Mountain View, CA 94040

swaroop.patnaik@bluedometech.com

- I. Right to Terminate/Suspend Contract. At any time and for any reason, HCAOG shall have the right to terminate or cancel the contract with 10 days' prior written notice. In such event, HCAOG shall pay the Consultant such equitable proportion of the total remuneration for the work actually done by the Consultant at the time of such discontinuance.
- J. Ownership of Work Product. Documents, data, reports, graphs, maps (Work Products") created by the Consultant pursuant to this Agreement shall be considered the property of HCAOG. Consultant shall not be held liable for any re-use or modification of the HCAOG owned Work Products for purposes outside of this agreement. Except for Consultant's marketing purposes, all Work Products and Deliverables created by the Consultant shall not be reused by the Consultant without written permission from HCAOG which permission shall not be unreasonably withheld or delayed.
- K. Indemnity. When the law establishes a professional standard of care for Consultant's services, to the fullest extent permitted by law, Consultant shall, indemnify, defend and hold harmless HCAOG, its officials, employees and agents (collectively, "Indemnified Parties") from and against any and all losses, liabilities, damages, costs and expenses, including attorney's fees and costs to the extent same are caused in whole or in part by any negligent or wrongful act, error or omission of Consultant, its officers, agents, employees or sub-Consultants or any entity or individual for which Consultant shall bear legal liability in the performance of professional services under this Agreement. Other than in the performance of professional services and to the fullest extent permitted by law, Consultant shall, indemnify, defend and hold harmless HCAOG, and any all of the Indemnified Parties from and against any liability (including liability for claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or

threatened, including attorney's fees and costs, court costs, interest, defense costs, and expert witness fees), where the same arise out of, are a consequence of, or are in any way attributable to, in whole or in part, the performance of this contract by Consultant or by any individual or entity for which Consultant is legally liable, including but not limited to officers, agents, employees or sub-Consultants of Consultant. Notwithstanding any other provision of this agreement, no Party shall be liable or responsible for any consequential, special, incidental, or punitive damages arising from this agreement.

- L. Subcontracting. No services covered by the contract shall be subcontracted without the prior written consent of the HCAOG. Consultant shall furnish separate insurance certificates and endorsements for each subcontractor having received consent by HCAOG in the amounts specified in Section 3B of this Agreement.
- M. Assignment. This contract is not assignable by the Consultant, either in whole or in part.
- N. Designated Representatives. With the execution of this contract, Consultant and HCAOG shall designate specific individuals to act as Consultant's and HCAOG's representatives with respect to the services to be performed or furnished by Consultant and responsibilities of HCAOG under this contract. Such individuals shall have authority to transmit instructions, receive information, and implement the contract on behalf of each respective party.
- O. Governing Law. This contract and performance hereunder and all suits and special proceedings shall be construed in accordance with the laws of the State of California. In any action or proceeding that may be brought from or connected in any way to this contract, the laws of the State of California shall be applicable and shall govern to the exclusion of the law any other forum. Venue shall be fixed in Humboldt County.
- P. Disputes. HCAOG and Consultant agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice prior to invoking any procedures of this contract or exercising their rights under law. Prior to court action, the parties agree to pursue mediation as a means to settle any dispute.
- Q. Entire Agreement. This contract together with the exhibits identified constitutes the entire contract between HCAOG and Consultant for the Services and supersedes all prior written or oral understandings.
- R. Survival. All express representations, waivers, indemnifications, and limitations of liability included in this contract will survive its completion or termination for any reason.
- S. Waiver. Except for the acceptance of the Deliverables, neither the acceptance of Consultant's work nor the payment thereof shall constitute a waiver of any provisions of this contract. A waiver of any breach shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this contract.

IN WITNESS WHEREOF, the parties hereto have caused this contract to be executed
this _____ day of _____, 2024.

HCAOG

By _____

Debbie Egger, Interim Executive Director

Date

CONSULTANT



01/15/2026

Date

SUBCONSULTANT LIST – RFP EXHIBIT C

The proposal shall include a complete list of all proposed subconsultants. All subconsultants listed must be provided a meaningful element of work within the defined scope of work. Changes to this Subconsultant List will not be allowed without prior written approval from RTPA.

Proposed Subconsultants

Subconsultant Firm Name and Address	Scope of Work	Dollar Amount of Work
Name Sui Tan Address 160 9th St Ste 2, Oakland, CA 94607	Verification of data collected to meet MTC guidelines, StreetSaver strategy review	\$ 23,000
Name Raymond Kinser Address 2909 Coffee Road, Modesto, CA 95355	GIS report and data validation to eliminate duplicates.	\$ 8,000
Name Address		\$
Name Address		\$
Name Address		\$
Name Address		\$

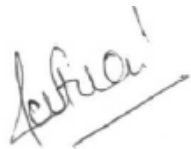
Blue Dome Technologies Corporation

Name of Lead Firm

Swaroop Patnaik, CEO

Printed Name and Title of Signatory

Signature



01/15/2026

Date

Subconsultant References

Sui Tan

Contact Information

- **Name:** Theresa Romell
- **Title:** Section Director
- **Address:** Metropolitan Transportation Commission
- 375 Beale Street, Suite 800, San Francisco CA 94105
- **Phone:** 510-817-5772
- **Email:** TRomell@bayareametro.gov

- **Name:** Dr. Dingxin Cheng
- **Title:** Professor and Director
- **Address:** California State University - Chico
- 400 W 1st St, Chico, CA 95929
- **Phone:** 530-966-5197
- **Email:** dxcheng@csuchico.edu

Raymond Kinser

Agency Type: Municipality

Project Dates: 2009 – Present

Nature of Work: GIS consulting and project management for City-wide departments focusing on Public Works infrastructure. Work includes creation, management, and updating of various datasets to integrate with various databases and applications for GIS publication.

Contact Information:

- **Name:** Vedika Ahuja
- **Title:** Product Manager of Data and Insights | Digital Service and Open Government
- **Address:** City of San Rafael, San Rafael, CA
- **Phone:** 415-485-3171
- **Email:** Vedika.Ahuja@cityofsanrafael.org

Agency Type: Sanitation District

Project Dates: 2017 – Present

Nature of Work: GIS consulting for infrastructure management. Work includes updating collection system, establishing field-based data collection for crews, processing and integrating CCTV data collection, and linking to various applications for integration with the District GIS.

Contact Information:

- **Name:** Danae Gemmell, PE
- **Title:** District Engineer
- **Address:** Ironhouse Sanitary District 450 Walnut Meadows Drive Oakley, CA 94561
- **Phone:** 925-809-3008
- **Email:** gemmell@isd.us.com