The following purchase order is agency specific. For piggy-backing opportunities you must contact the buyer.

KingCounty

Finance and Business Operations Division
Procurement and Contracts Services Section
Department of Executive Services

CNK-ES-0340
3rd Floor
401 5th Avenue
SEATTLE, WA 98104

206-263-9400 Ph
206-296-7676 Fax
TTY Relay: 771
www.kingcounty.gov

CONTRACTOR:
VISLINK INC
101 BILLERICA AVE BLDG 6

NORTH BILLERICA, MA 01862 United States
Fax: ()

SHIP TO:
KC DES FBOD PCSS GOODS AND SERVICES
401 5TH AVE, CNK-ES-0340
SEATTLE, WA 98104

BILL TO:
KC DES FBOD ACCOUNTS PAYABLE
401 5TH AVE, CNK-ES-0320
SEATTLE, WA 98104

CONTRACT

CONTRACT NO.	REVISION	PAGE
5814109	1	1 of 1

CREATION DATE	BUYER
16-NOV-2015	LINDA MCKINLY
DATE OF REVISION	BUYER
15-DEC-2015	LINDA MCKINLY

CONTRACTOR NO	PAYMENT TERMS	FREIGHT TERMS	FOB	SHIP VIA	CONFIRM TO
624303	NET30DAYS	Paid	DESTINATION, FREIGHT PAID	Best Way	Telephone: ()

DESCRIPTION

Provide airborne video downlink surveillance network enhancement consultation services as requested by authorized King County Sheriff Office employees, during the period November 16, 2015 through November 15, 2020, in accordance with the terms and conditions of Invitation to Bid number 1283-15-GMK and the submitted response of Vislink Inc, both incorporated by reference as if fully set forth herein.

Total Estimated Contract Value $535,000.00

Authorized Signature

VISLINK

ORIGINAL

KING COUNTY SHERIFF'S OFFICE
AIRBORNE VIDEO DOWNLINK
SURVEILLANCE NETWORK ENHANCEMENT

King County

INVITATION TO BID
1283-15-GMK
October 1, 2015

101 Billerica Avenue | North Billerica MA 01862
Tel: +1.978.671.5700 | Fax: +1.978.671.5800
www.vislink.com

VISLINK

Introduction - Vislink, Inc.

Vislink is pleased to provide King County with a fully compliant proposal for ITB #1283-15-GMK, King County Sheriff's Office, Airborne Video Downlink Network Enhancement Project.

For more than 50 years, Vislink has been providing highly reliable and secure video communications systems and complete integration services to our Federal, State, and Local Law Enforcement & Public Safety customers.

As a mature, growing, and financially stable technology company that employs more than 250 people worldwide, you can be assured that Vislink will continue to develop, manufacture, integrate, & support next generation communications solutions for the nation's first responders.

Vislink is the industry leader for high-definition airborne video downlink and IP distribution solutions including the manufacturing of high-powered aircraft transmitters, multi-antenna strategic IP diversity receivers, as well as video management and IP distribution solutions.

In addition, our in-house technical expertise regarding high-bandwidth data interconnection solutions including optical fiber, RF cable & terrestrial microwave systems, ensures your downlink project success by being to competently interact with the designated network providers.

Vislink solutions engineers and field integration technical staff provide our customers with complete end-to-end video downlink solutions including; Initial needs assessment, site survey and system design, FCC licensing, product manufacturing, solution installation, testing, training and technical support. There is no better value for the customer than purchasing a completely integrated solution from an original equipment manufacturer.

Vislink has installed several multi-site automatic and autonomous receive solutions for domestic US Law Enforcement customers exactly as outlined within this ITB, including a large (6) receive site IP Diversity solution for the San Diego Police, Sheriff & Fire Department, which seamlessly covers approximately 2,500 square miles of varying terrain from the coast, throughout the mountains and down to the Mexico border.

This Vislink engineered and integrated solution was installed in May 2014 and has provided continuous and error free operation since its commissioning. Vislink is proposing the same proven technology for this project and no prototype or experimental products or solutions will be utilized.

Compliant Proposal

As stated above, Vislink intends to provide the King County Sheriff's Office with a fully compliant proposal and solution as outlined within the ITB.

The key sections of the outlined solution are as follows;

1. Aircraft RF Transmit System
2. Fixed Diversity RF Receive System
3. IP Diversity Site Selection / IP Voting System
4. IP Video Decoding, Distribution and Viewing System

VISLINK

Aircraft RF Transmit System

Vislink manufacturers the industry's most compact, lightweight, highest power and most reliable aircraft HD/SD video transmitter. The proposed HDX-1100 transmitter is a single box, MPEG2 or MPEG4/H.264 and DVB-T compliant system. This transmitter has been field tested for unencrypted compatibility with the same fixed receive and hand-held receive solutions currently in operation with King Sheriff, Snohomish Sheriff and Washington State Patrol.

Fixed Diversity RF Receive System

Vislink manufacturers the industry's most reliable and flexible fixed multi-input HD/SD video receiver. The proposed HDR-5000 (6) input COFDM diversity receiver is a single box, MPEG2 or MPEG4/H.264 and DVB-T compliant system. This advanced receiver can provide (2) independent IP output streams as required within the ITB. In addition, this receiver has been field tested for unencrypted compatibility with the same aircraft transmitter currently in operation with King Sheriff, Snohomish Sheriff, and Washington State Patrol.

IP Diversity Site Selection / Voting System

Vislink manufacturers the industry's only proven large area automatic and autonomous site selection / IP voting system as specified in the ITB. The proposed TSS-1100 IP Diversity site switch is a single box, scalable and expandable TSoIP switch that can be license key upgraded to support up to (12) remote receive sites in groups of (4). This advanced selection system provides the smart IP switching of the incoming video images as the aircraft maneuvers throughout the covered region providing the viewers with a continuous and uninterrupted video image.

IP Video Decoding, Distribution, and Viewing System

Vislink's video decoding, distribution and IP streaming/viewing solution allows both field personnel and command staff access to real-time decision making airborne video content. Decoding the video at the RCECC location with our HDD-1100 unit allows for viewing of two simultaneous aircraft in either HD or SD formats via several connection types, such as; HD-SDI, SD-SDI, HDMI, composite video and IP, which allows for flexibility when using with an existing EOC video wall system. Vislink's Video Media Server, VMS-1100 solution, allows for authorized viewing of the two individual aircraft downlink IP video streams via user name and password security. This advanced IP distribution solution allows remote and desktop users the ability to view the airborne video via Smartphone devices, desktop/laptop computers, and tablets using Android, iOS or Flash and is automatically scalable to several bitrates to ensure viewer connectivity.

Closing Statement / Value Proposition

Vislink is very pleased to provide a fully compliant proposal for this project utilizing only proven technology for a wide-area airborne video surveillance downlink solution as outlined within the ITB.

Vislink believes the key to this programs success is to partner with an original equipment manufacturer, integrator, and service provider that has a proven track record of success, has the technical expertise and staff capable of providing the level of product support that will be required for this project, as well as provide the best possible value. We look forward to the opportunity to work with you on this project.

Best Regards,

Christopher J. Gibbons

Vice President, Business Development, Surveillance Solutions.
christopher.gibbons@vislink.com
714-412-1884

Invitation to Bid

King County

Department of Executive Services
Finance and Business Operations Division
Procurement and Contract Services Section
206-263-9400 TTY Relay: 711

ADVERTISED DATE: SEPTEMBER 15, 2015

Invitation to Bid (ITB) Title:	Airborne Video Downlink Surveillance Network Enhancement
ITB Number:	1283-15-GMK
Due Date:	October 1, 2015 - 2:00 p.m.
Buyer:	Gina Keolker, gina.keolker@kingcounty.gov, 206-263-9316
Alternate Buyer:	Jordan Jungnitz, jordan.jungnitz@kingcounty.gov, 206-263-9313

Furnish airborne video downlink surveillance network enhancements as requested by King County personnel in accordance with the attached instructions, requirements and specifications.

TOTAL BID PRICE: $ 535,000.00

NO PRE-BID CONFERENCE	Sealed Bids are hereby solicited and will only be received by: King County Procurement Services Section Chinook Building, 3rd Floor 401 Fifth Avenue Seattle, WA 98104 Office Hours: 8:00 a.m. – 5:00 p.m. Monday - Friday

BIDDERS SHALL COMPLETE AND SIGN THE FORM BELOW.

We acknowledge that all Addenda have been examined as part of the Contract documents. The submittal is signed by an authorized representative of the Bidder accepting all terms and conditions contained in the bid and any addenda. We acknowledge that attaching our terms and conditions or modifying the ITB terms and conditions may result in our bid being rejected.

Company Name
Vislink, Inc.

Address	City/State /Postal Code
101 Billerica Avenue	North Billerica MA 01862

Signature	Print name and title
	Christopher J. Gibbons / VP Bus Dev.

Email	Phone	Fax
christopher.gibbons@vislink.com	714-412-1884	978-671-5700

SCS/DBE Certification Number
602-947-326

Upon request, this Invitation to Bid will be provided in alternative formats such as Braille, large print, audiocassette or computer disk for individuals with disabilities.

SECTION 1 Instruction to Bidders

1.1 Introduction

The purpose of this Invitation to Bid is to establish a contract to provide goods or services on an as-needed basis. Any quantities listed herein are for bidding purposes only and represent King County's estimated annual requirements. The County will be neither obligated nor restricted to the quantities or locations indicated.

1.2 Bid Submittal Procedure

The **original and one (1) paper copy of this solicitation document as well as one (1) version of this solicitation document in PDF format and Attachment A - Pricing in Excel format on either a compact disk or flash drive** shall be completed, signed and submitted. Failure to return the solicitation document may result in disqualification of the Bidder. The original shall be noted or stamped "original". Bids and modifications thereof shall be enclosed in a sealed envelope, with the "Bid Opening Label" completed and affixed.

Bidders are encouraged to use recycled paper in the preparation of additional documents submitted with this solicitation, and shall use both sides of paper sheets where practicable.

Sealed bids shall contain all required attachments and information and be submitted to King County (hereinafter "County") no later than the date, time and place stated on the front of this ITB or as amended. The bidder shall show the title and number, the due date specified, and the name and address of the bidder on the face of the envelope. Bidders are cautioned that failure to comply may result in non-acceptance of the bid. The Bidder accepts all risks of late delivery of mailed bids or of mis-delivery regardless of fault. Bids properly and timely submitted will be publicly opened.

Bids will only be accepted from Contractors able to complete the delivery of goods or services described in the specifications. Joint ventures shall submit one bid for the team, with accompanying proof of the joint venture agreement.

If a company chooses not to submit a bid, the County requests the company advise the Buyer by email if they desire to remain listed for the subject of this ITB and state reason they did not submit a bid.

1.3 Electronic Commerce and Correspondence

King County is committed to reducing costs and facilitating quicker communication to the community by using electronic means to convey information. As such, most Invitations to Bid, Requests for Proposal, and Requests for Qualifications as well as related exhibits, appendices, and issued addenda can be found on the King County Internet Web Site, located at http://www.kingcounty.gov/procurement. Current bidding opportunities and information are available by accessing the "Solicitations" tab in the left hand column.

King County Procurement Services features an Online Vendor Registration (OVR) program that permits vendors, consultants and contractors to register their business with the County. This OVR system allows interested parties to either directly register their firm by creating a unique User ID, or to visit the website as a guest. Information regarding bid documents will be available to all users; however, site visitors accessing the site as a guest will not be able to

document their interest in a project or add their name to the document holder's list. They will receive no automatic notification of issued addenda. As such, the County encourages full registration in order to directly communicate with document holders regarding any issued addenda or other important information concerning the solicitation.

After submittals have been opened in public, the County will post a listing of the businesses submitting proposals, and later, any final award determination.

Full information on vendor registration is available at the website.

1.4 Alterations to Document

Any addition, limitation or provision made or attached to the bid may render it non-responsive and/or irregular and be cause for its rejection.

Bidders may be required to submit additional documents as part of the bid package. Any alteration of such documents by erasure or interlineations shall be explained or noted and initialed by the Bidder.

1.5 Late Bids

Bids, modifications of bids, and withdrawal of bids received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered.

1.6 Cancellation of ITB or Postponement of Bid Opening

The County reserves the right to cancel the ITB at any time.

The County may change the date and time for submitting bids prior to the date and time established for submittal.

1.7 Addenda

If at any time, the County changes, revises, deletes, clarifies, increases, or otherwise modifies the ITB, the County will issue a written Addendum to the ITB.

1.8 Questions and Interpretation of the ITB

No oral interpretations of the ITB will be made to any Bidder. All questions and any explanations must be requested in writing and directed to the Buyer no later than seven (7) days prior to the due date specified in the solicitation. Oral explanations or instructions are not binding. Any information modifying a solicitation will be furnished to all bidders by an addendum.

Days, as referenced in this document, are calendar days unless otherwise specified.

Communications concerning this bid, with other than the listed Buyer may cause the Bidder to be disqualified.

1.9 Examination of Bid Documents

The submission of a bid shall constitute an acknowledgement upon which the County may rely that the Bidder has thoroughly examined and is familiar with the ITB, including any work site identified in the ITB, and has reviewed and inspected all applicable statutes, regulations, ordinances and resolutions addressing or relating to the goods or services to be provided hereunder.

The failure of a Bidder to comply with above requirement shall in no way relieve the Bidder from any obligations with respect to its bid or to any Contract awarded pursuant to this ITB. No claim for additional compensation shall be allowed which is based upon a lack of knowledge or misunderstanding of this ITB.

1.10 Modifications of Bid or Withdrawal of Bid Prior to Bid Due Date

At any time before the time and date set for submittal of bids, a Bidder may submit a modification of a bid previously submitted to the County. All bid modifications shall be made in writing, executed and submitted in the same form and manner as the original bid.

Bids may be withdrawn by written notice received prior to the exact hour and date specified for receipt of bids. A bid also may be withdrawn in person by a Bidder or authorized representative provided their identity is made known and they sign a receipt for the bid, but only if the withdrawal is made prior to the exact hour and date set for receipt of bids. All requests for modification or withdrawal of bids, whether in person or written, shall not reveal the amount of the original bid.

1.11 Bid Withdrawal After Public Opening

Except for claims of error granted by the County, no Bidder may withdraw a bid after the date and time established for submitting bids, or before the award and execution of a Contract pursuant to this ITB, unless the award is delayed for a period exceeding the period for bid effectiveness.

Requests to withdraw a bid due to error must be submitted in writing along with supporting evidence for such claim for review by the county. Evidence must be delivered to the county within two (2) business days after request to withdraw. The County reserves the right to require additional records or information to evaluate the request. Any review by the County of a bid and/or any review of such a claim of error, including supporting evidence, creates no duty or liability on the County to discover any other bid error or mistake, and the sole liability for any bid error or mistake rests with the Bidder.

1.12 Cost of Bid and Samples

The County is not liable for any costs incurred by Bidder in the preparation and evaluation of bids submitted. Samples of items required must be submitted to the location and by the time specified. Unless otherwise specified, samples shall be submitted with no expense to the County. If not destroyed by testing, samples may be returned at the bidder's request and expense.

1.13 Collusion

By signing this bid, the Bidder certifies that they have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding. If the County determines that collusion has occurred among Bidders, none of the bids from the participants of such collusion will be considered. The County's determination will be final.

1.14 Bid Effective Date

All bids submitted shall be a firm bid for a minimum period of 90 days after the bid opening date, unless otherwise stated in writing in the bid. The County may request a Bidder grant an extension of the bid effective period.

1.15 Bid Price and Tax

The bid price shall include everything necessary for the prosecution and completion of the Contract, except as may be provided otherwise in this ITB.

Bid Prices shall include all freight charges, FOB to the designated delivery point(s).

Taxes: Sales/use taxes and Federal excise taxes shall not be included in the bid price. The County shall pay any Washington State sales/use taxes applicable to the Contract price or tender an appropriate amount to the Contractor for payment to Washington State. The Bidder is cautioned that taxes may be a factor in evaluating the total cost of bid.

The County is exempt from Federal excise and Transportation taxes. All other government taxes, duties, fees, licenses, permits, royalties, assessments and charges shall be included in the bid price. Said exemption is made pursuant to Chapter 32 of the Internal Revenue Code and Registry No. A-1 02374. When requested, an exemption certificate will be furnished.

1.16 Protest Procedures

King County has a process in place for receiving protests based upon invitation to bid or contract awards. The protest procedures are available at http://www.kingcounty.gov/procurement/faq, Suppliers web page.

SECTION 2 Bid Evaluation and Contract Award

2.1 Evaluation of Bids

Bids will be evaluated by the County to determine which bid, if any, may be deemed to be the low responsive bid from a responsible bidder, and should be accepted in the best interest of the County.

King County may use prompt payment discount terms in evaluation of this ITB; however, discounts terms of less the twenty (20) days will not be considered. Minimum acceptable payment terms by the County without benefit of twenty (20) day discount will be net 30 days.

In the event of a discrepancy between the unit price and the extended amount for a bid item, the unit price will govern.

2.2 Responsive and Responsible

Responsive

The County will consider all the material submitted by the Bidder, and other evidence it may obtain otherwise, to determine whether the Bidder is in compliance with the terms and conditions set forth in this ITB.

Responsible

In determining the responsibility of the bidder, the County may consider the ability, capacity and skill to perform the Contract or provide the service required (inspection of the bidder's facility may be required prior to award); the character, integrity, reputation, judgment and efficiency; financial resources to perform the Contract properly and within the times specified; the quality and timeliness of performance on previous contracts with the County and other agencies, including, but not limited to, the effort necessarily expended by the County and other agencies in securing satisfactory performance and resolving claims; compliance with federal, state and local laws and ordinances relating to public contracts; other information having a bearing on the decision to award the Contract.

Failure of a bidder to be deemed responsible or responsive may result in the rejection of a bid.

2.3 Financial Resources and Auditing

If requested by the County, prior to the award of a contract, the bidder shall submit proof of adequate financial resources available to carry out the execution and completion of work required by this contract.

King County reserves the right to audit the Contractor throughout the term of this contract to assure the Contractor's financial fitness to perform and comply with all terms and conditions contained within this contract. King County will be the sole judge in determining the Contractor's financial fitness in carrying out the terms of this contract.

2.4 Substitutions

When specific brands, materials, design, style or size are named, such specifications may be construed to be shown solely for the purpose of indicating the standard of quality, performance or intended use.

Where indicated, brands of equal quality, performance and use may be considered by the county, provided the bidder submits with their bid the brand, model, product number and other data necessary for comparison. The county retains the sole right to accept or reject substitutions.

2.5 Forms Required Before Contract Award

The Bidder shall submit, within five (5) Days of notification from the County, the applicable documents, insurance, bonds, sworn statements, and other requirements prior to award. Failure by the Bidder to submit required documents may result in rejection of the bid.

- Internal Revenue Service Form W-9 *
- Certificate of Lobbying Activities (Attachment B)
- **Certificate of Insurance and Endorsement** * – Have Insurance Agent e-mail or Fax to Buyer evidence of insurance from insurer(s) satisfactory to the county certifying to the coverage of insurance set forth in this ITB.

*If not on file with the County

2.6 Rejection of Bids

The County reserves the right to reject any bid for any reason or to waive informalities and irregularities in bids.

In consideration for the County's review and evaluation of its bid, the Bidder waives and releases any claims against the County arising from any rejection of any or all bids, including any claim for costs incurred by Bidders in the preparation and presentation of bids submitted in response to this ITB. In addition, Bidders waive the costs of providing additional information requested.

2.7 Single Bid Receipt

If the County receives a single responsive, responsible bid, the County may request an extension of the bid acceptance period and/or conduct a price or cost analysis on such bid. The Bidder shall promptly provide all cost or pricing data, documentation and explanation requested by the County to assist in such analysis. By conducting such analysis, the County shall not be obligated to accept the single bid; the County reserves the right to reject such bid or any portion thereof.

2.8 Public Disclosure of Bids

This Contract shall be considered a public document and will be available for inspection and copying by the public in accordance with the Public Records Act, Chapter 42.56 RCW (the "Act").

If the Contractor considers any portion of any record provided to King County under this Contract, whether in electronic or hard copy form, to be protected under law, the Contractor shall clearly identify each such portion with words such as "CONFIDENTIAL," "PROPRIETARY" or "BUSINESS SECRET." If a request is made for disclosure of such portion, the County will determine whether the material should be made available under the Act. If the County determines that the material is subject to disclosure, the County will notify

the Contractor of the request and allow the Contractor ten (10) business days to take whatever action it deems necessary to protect its interests. If the Contractor fails or neglects to take such action within said period, the County will release the portions of record(s) deemed by the County to be subject to disclosure. King County shall not be liable to the Contractor for inadvertently releasing records pursuant to a disclosure request not clearly identified by the Contractor as "CONFIDENTIAL," "PROPRIETARY" or "BUSINESS SECRET."

2.9 Contract Award

Contract award, if any, will be made by the County to the low, responsive, responsible Bidder. The County will have no obligations until an award is made and an order placed with the Contractor. The County reserves the right to award one or more contracts as determined to be in the County's best interest. The County may accept any individual item, or group of items, or schedules of any bid, unless otherwise stated herein.

A written award mailed or otherwise furnished to a Contractor within the time for acceptance shall be a binding contract.

SECTION 3 Standard Contractual Terms and Conditions

3.1 Administration

This Contract is between the County and the Contractor who shall be responsible for providing the goods or services described herein. The County is not party to defining the division of work between the Contractor and its Subcontractors. The Contractor represents that it has or shall obtain all duly licensed or qualified personnel, materials and equipment required to perform work hereunder.

The Contractor's performance under this Contract may be monitored and reviewed by a Project Manager appointed by the County. Reports and data required to be provided by the Contractor shall be delivered to the Project Manager or Buyer. Questions by the Contractor regarding interpretation of the terms, provisions and requirements of this Contract shall be addressed to the Buyer or Project Manager for response.

3.2 Contract Amendments

No oral order or conduct by the County shall constitute a Contract Amendment. Contract Amendments shall only be effective upon written notification by the County. The County reserves the right to amend the contract to add or delete goods or services within the intended scope of this contract. This may include, but is not limited to approval of replacements for discontinued items, add items of like function, or similar in nature or purpose to the originally listed products; the provision of ancillary services in response to minor changes in County needs; extend the contract to include optional terms.

Cost or Price Analysis may be required by the County for the evaluation of contract modifications, terminations, revision to contract requirements or other circumstances as determined by the County.

3.3 Invoices and Payment

The Contractor shall submit properly certified invoices to King County. The invoice(s) shall contain the following information: The purchase order/contract number, item numbers, description of supplies or services, quantities, unit prices, extended totals, and discounts, if applicable. For services, identify specific deliverables, and/or hourly rates, hours worked, total hours or related fees.

The Contractor shall bill to the address on the purchase order. The County will take advantage of any prompt payment discount terms bid. Discount periods shall be extended if the invoice is returned for credit or correction.

When a purchase order is issued against this Contract that has the potential for multiple or partial deliveries, a separate invoice shall be generated for each completed delivery accepted by the County.

Failure to comply with these requirements or to provide an invoice in conformance with the contract may delay payment.

Upon acceptance of payment, the Contractor waives any claims for the goods or services covered by the Invoice. No advance payment shall be made for the goods or services furnished by Contractor pursuant to this Contract.

King County will not be bound by prices contained in an invoice that are higher than those in the currently approved price list. If a price increase has not been accepted in writing by King County, the invoice may be rejected and returned to the Contractor for a correction.

3.4 Rejection of Goods Or Services

After award, the Buyer or authorized County representative shall have the option of rejecting or refusing delivery of any and all goods or services which are not in strict conformity with the requirements of the specification and the bid. All rejected goods or services shall be promptly replaced or re-performed and be subject to approval by the County. All replacement goods and services shall be provided at the Contractor's own expense.

3.5 Re-procurement Costs

When a Contractor fails to furnish goods or services in accordance with the terms of this Contract, and the County must purchase at a price greater than the contract price, the difference may be charged to the Contractor. The County may exercise this charge as a credit against invoices due the Contractor.

3.6 Termination For Convenience/Default/Non-appropriation

A. Termination for Convenience

The County for its convenience may terminate this Contract, in whole or in part, at any time by written notice sent certified mail, return receipt requested, to the Contractor. After receipt of a Notice of Termination ("Notice"), and except as directed by the County, the Contractor shall immediately stop work as directed in the Notice, and comply with all other requirements in the Notice. The Contractor will be paid its costs, including necessary and reasonable Contract close-out costs and profit on that portion of the work satisfactorily performed up to the date of termination as specified in the notice. The Contractor shall promptly submit its request for the termination payment, together with detailed supporting documentation. If the Contractor has any property in its possession belonging to the County, the Contractor shall account for the same and dispose of it in the manner the County directs. All termination payment requests may be subject to Cost or Price Analysis to determine reasonableness and compliance with the Contract and applicable laws and regulations.

B. Termination for Default

If the Contractor does not deliver work in accordance with the Contract, or the Contractor fails to perform in the manner called for in the Contract, or the Contractor fails to comply with any material provisions of the Contract, the County may terminate this Contract, in whole or in part, for default as follows:

A Notice to Cure will be served on the Contractor by certified mail (return receipt requested) or a delivery service capable of providing a receipt. The Contractor shall have ten (10) Days from the date the Notice to Cure was served to cure the default or provide the County with a detailed written plan, which indicates the time and methods needed to bring the work into compliance and cure the default.

If the Contractor has not cured the default or the plan to cure the default is not acceptable to the County, the County may terminate the Contract. Termination shall occur by serving a Notice of Termination by certified mail (return receipt requested) or delivery service capable of providing a receipt on the Contractor setting forth the manner in which the Contractor is in default and the effective date of termination.

The Contractor will only be paid for work delivered and Accepted, or work performed in accordance with the manner of performance set forth in the Contract less any damages to the County caused by or arising from such default. All termination payment requests are subject to Cost or Price Analysis to verify compliance with the Contract and applicable laws and regulations.

The termination of this Contract shall in no way relieve the Contractor from any of its obligations under this Contract nor limit the rights and remedies of the County hereunder in any manner.

C. Termination for Non-Appropriation

If expected or actual funding is withdrawn, reduced, or limited in any way prior to the termination date set forth in this Contract or in any amendment hereto, the County may, upon written notice to the Contractor, terminate this Contract in whole or in part.

In accordance with King County Code 4.04.040B.6, payment shall not exceed the appropriation for the year in which termination is effected. If this Contract is terminated for non-appropriation, the County shall be liable only for payment in accordance with the terms of this Contract for performance rendered prior to the effective date of termination; and, the Contractor shall be released from any obligation under this contract or a related Purchase Order to provide further work pursuant to the Contract as are affected by the termination.

Funding under this Contract beyond the current appropriation year is conditional upon the appropriation by the County Council of sufficient funds to support the activities described in this Contract. Should such an appropriation not be approved, the Contract shall terminate at the close of the current appropriation year. The appropriation year ends on December 31 of each year.

3.7 Force Majeure

The term force majeure shall include, without limitation by the following enumeration: acts of nature, acts of civil or military authorities, fire, accidents shutdowns for purpose of emergency repairs, industrial, civil or public disturbances, causing the inability to perform the requirements of this Contract. If any party is rendered unable, wholly or in part, by a force majeure event or any event cause not within such party's control, to perform or comply with any obligation or condition of this Contract, upon giving notice and reasonably full particulars to the other party, such obligation or condition shall be suspended only for the time and to the extent commercially practicable to restore normal operations. In the event the Contractor ceases to be excused pursuant to this provision, then the County shall be entitled to exercise any remedies otherwise provided for in this Contract, including Termination for Default.

Whenever a force majeure event causes the Contractor to allocate limited resources between or among the Contractor's customers, the County shall receive no less priority in respect to such allocation than any of the Contractor's other customers.

3.8 Taxes, Licenses, and Certificate Requirements

This Contract and any of the work provided hereunder is contingent and expressly conditioned upon the ability of the Contractor to provide the specified goods or services consistent with applicable federal, state or local laws and regulations. If, for any reason, the Contractor's required compliances are terminated, suspended, revoked or in any manner modified from their status at the time this Contract becomes effective, the Contractor shall notify the County immediately of such condition in writing.

The Contractor and subcontractor(s) shall maintain and be liable for all taxes (except sales/use taxes), fees, licenses, permits and costs as may be required by applicable federal, state or local laws and regulations as applicable to the work under this Contract.

3.9 Assignment

Neither party shall assign any interest, obligation or benefit under or in this Contract or transfer any interest in the same, whether by assignment or novation, without prior written consent of the other party. If assignment is approved, this Contract shall be binding upon and inure to the benefit of the successors of the assigning party. This provision shall not prevent the Contractor from pledging any proceeds from this Contract as security to a lender so long as King County Policy Fin10-1 (AP), paragraph 6.1.3 is followed. If assignment is approved, it shall be accepted by either party upon the posting of all required bonds, securities and the like by the assignee and the written agreement by assignee to assume and be responsible for the obligations and liabilities of the Contract, known and unknown, and applicable law.

3.10 Indemnification and Hold Harmless

To the maximum extent permitted by law and except to the extent caused by the sole negligence of the County, the Contractor shall indemnify and hold harmless the County, its officers, officials, agents and employees, from and against any and all suits, claims, actions, losses, costs, penalties and damages of whatsoever kind or nature arising out of, in connection with, or incident to the goods and/or services Provided by or on behalf of the Contractor. In addition, the Contractor shall assume the defense of the County and its officers and employees in all legal or claim proceedings arising out of, in connection with, or incidental to such goods and/or services: shall pay all defense expenses, including reasonable attorney's fees, expert fees and costs incurred by the County on account of such litigation or claims. This indemnification obligation shall include, but is not limited to, all claims against the County by an employee or former employee of the Contractor or its Subcontractors, and the Contractor, by mutual negotiation, expressly waives all immunity and limitation on liability, as respects the County only, under any industrial insurance act, including Title 51 RCW, other Worker's Compensation act, disability benefit act, or other employee benefit act of any jurisdiction which would otherwise be applicable in the case of such claim. In the event that the County incurs any judgment, award and/or cost including attorney's fees arising from the provisions of this subsection, or to enforce the provisions of this subsection, any such judgment, award, fees, expenses and costs shall be recoverable from the Contractor. In the event of litigation between

the parties to enforce the rights under this subsection, reasonable attorney fees shall be allowed to the substantially prevailing party.

In the event the County incurs attorney fees and/or costs in the defense of claims under this provision such attorney fees and costs shall be recoverable from the Contractor. In addition King County shall be entitled to recover from the Contractor its attorney fees, and costs incurred to enforce the provisions of this section.

The indemnification, protection, defense and save harmless obligations contained herein shall survive the expiration, abandonment or termination of this Contract.

Nothing contained within this provision shall affect and/or alter the application of any other provision contained within this Contract.

3.11 Applicable Law and Forum

Except as hereinafter specifically provided, this Contract shall be governed by and construed according to the laws of the State of Washington, including, but not limited to, the Uniform Commercial Code, Title 62A RCW. Any claim or suit concerning this Contract shall only be filed in either the King County Superior Court or U.S. District for the Western District of Washington, in Seattle.

3.12 Conflicts of Interest and Non-Competitive Practices

By entering into this Contract to perform work, the Contractor represents that it has no direct or indirect pecuniary or proprietary interest, and that it shall not require any interest that conflicts in any manner or degree with the work required to be performed under this Contract. The Contractor shall not employ any Person or agent having any conflict of interest. In the event that the Contractor or its agents, employees or representatives hereafter acquires such a conflict of interest, it shall immediately disclose such conflict to the County. The County shall require that the Contractor take immediate action to eliminate the conflict up to and including termination for default.

By entering into this Contract to perform work, the Contractor represents that no Persons except as designated by Contractor shall be employed or retained to solicit or secure this Contract with an agreement or understanding that a commission, percentage, brokerage, or contingent fee would be paid; and no gratuities, in the form of entertainment, gifts or otherwise, were bided or given by the Contractor or any of its agents; employees or representatives, to any official, member or employee of the County or other governmental agency with a view toward securing this Contract or securing favorable treatment with respect to the awarding or amending, or the making of any determination with respect to the performance of this Contract.

3.13 Disputes, Claims and Appeals

The Contractor shall address questions or claims regarding the Contract in writing to the Buyer and Project Manager, within ten (10) Days of the date on which the Contractor knows or should know of the question or claim. No claim by the Contractor shall be allowed if asserted after final payment under this Contract. No claim shall be allowed for any costs incurred more than ten (10) Days before the Contractor gives written notice, as required in this section. The Buyer and Project Manager shall ordinarily respond to the Contractor in writing with a decision,

but absent such written response, the question or claim shall be deemed denied upon the tenth (10th) Day following receipt by the Buyer and Project Manager.

In the event the Contractor disagrees with the determination of the Buyer and Project Manager, the Contractor shall within five (5) Days of the date of such determination, appeal the determination in writing to the Procurement and Contract Services Section Manager. Such written notice of appeal shall include all information necessary to substantiate the appeal. The Procurement and Contract Services Section Manager shall review the appeal and make a determination in writing, which shall be final. Appeal to the Procurement and Contract Services Section Manager shall be a condition precedent to alternative dispute resolution or litigation.

Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Contract and in accordance with the direction of the Buyer or Project Manger. Failure to comply precisely with the time deadlines under this subsection as to any claim shall operate as a waiver and release of that claim and an acknowledgement of prejudice to the County.

3.14 Maintenance of Records/Audits

The Contractor shall maintain, and shall require any sub-contractor to maintain, accounts and records, including personnel, property, financial, and programmatic records and such other records as may be deemed necessary by the County to ensure proper accounting for all contract funds and compliance with this Contract. All such records shall sufficiently and properly reflect all direct and indirect costs of any nature expended and services provided in the performance of this Contract. The Contractor shall make such documents available to the County for inspection, copying, and auditing upon request.

All records referenced in this section shall be maintained for a period of six (6) years after completion of work or termination hereof unless permission to destroy them is granted by the Office of the Archivist in accordance with RCW Chapter 40.14, or unless a longer retention period is required by law.

The Contractor shall provide access to its facilities, including those of any sub-contractor, to the County, the State and/or federal agencies or officials at all reasonable times in order to monitor and evaluate the services provided under this Contract.

The Contractor agrees to cooperate with County or its designee in the evaluation of the services provided under this Contract and to make available all information reasonably required by any such evaluation process. The results and records of said evaluation shall be maintained and disclosed in accordance with RCW Chapter 42.56.

If the Contractor expended a total of $500,000.00 or more in federal awards during its fiscal year, and is a non-profit organization, and is, under this Contract, carrying out or administering a program or portion of a program, it shall have an independent audit conducted in accordance with OMB Circular A-133, which shall comply with the requirements of GAAS (generally accepted auditing standards), GAO's Government Audit Standards and OMB Circular A-133, as amended and as applicable. Contractors expending federal awards from more than one source shall be responsible for determining if the combined financial awards are equal to or greater than $500,000.00. The Contractor shall provide one copy of the audit report to each

County division providing federal awards to the Contractor no later than nine (9) months subsequent to the end of the Contractor's fiscal year.

3.15 Other Public Agency Orders

Other federal, state, county and local entities may utilize the terms and conditions established by this Contract if agreeable to all parties. The County does not accept any responsibility or involvement in the purchase orders or contracts issued by other public agencies.

If the contractor agrees to extend this contract to other governmental agencies, this contract is subject to an Administrative Fee (Fee) of 1% (.01). The Fee shall be based on total sales made to each governmental agency outside of King County's Departments, Divisions and Agencies, less sales tax, freight and any credits(s). The Fee shall be paid by the contractor, payable and remitted to King County Procurement and Contract Services Section not less than twice per year, on July 31st and January 31st for the first and second half of the year sales respectively. Fees submitted shall be accompanied by a sales report, reference the contract number, and show the total sales to other governmental agencies, excluding King County. The contractor shall not invoice the Fee to any contract user.

3.16 Environmentally Preferable Product Procurement Policy

Bidders able to supply products containing recycled and environmentally preferable materials that meet performance requirements are encouraged to offer them in bids and proposals.

The Bidder and Contractor shall use recycled paper for all printed and photocopied documents related to the submission of this solicitation and fulfillment of the contract and shall, whenever practicable, use both sides of the paper. (Reference: KCC 18.20).

3.17 Industrial and Hazardous Waste

The Contractor shall comply with all applicable local ordinances, state and federal statutes, and supporting rules and regulations governing the discharge of industrial waste to public sewer, private sewer, or side sewer tributary to the metropolitan sewer system.

Contractor shall handle and dispose of all hazardous wastes in compliance with all applicable local, state and federal laws and regulations, including the Resource Conservation and Recovery Act, the Washington Hazardous Waste Management Act, and applicable rules and regulations of the Environmental Protection Agency and the Department of Ecology governing the generation, storage, treatment, transportation or disposal of hazardous wastes.

3.18 Patents and Royalties

The Contractor is responsible for paying all license fees, royalties or the costs of defending claims for the infringement of any intellectual property that may be used in performing this Contract.

3.19 Supported Employment Program

The County encourages the creation of supported employment programs for developmentally and/or severely disabled individuals. The County itself has such a program and is actively seeking to do business with those Contractors and Consultants that share this employment approach. If your firm has such a program, or intends to develop such a program during the life of this Contract, please submit Documentation supporting this claim with your bid. If you have

questions, or need additional information, please contact the Community and Human Services Division, Developmental Disabilities Division, 206-263-9061.

3.20 Nondiscrimination and Equal Employment Opportunity

A. Nondiscrimination in Employment - During performance of this Contract, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of the employee or applicant's sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except by minimum age and retirement provisions, unless based upon a bona fide occupational qualification.

B. Equal Employment Opportunity Efforts - The Contractor will undertake equal employment opportunity efforts to ensure that applicants and employees are treated, without regard to their sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age. The Contractor's equal employment opportunity efforts shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeships. The Contractor agrees to post in conspicuous places available to employees and applicants for employment notices setting forth this nondiscrimination clause. In accordance with KCC 12.16.010.J, "equal employment opportunity efforts" shall mean active efforts to ensure equal opportunity in employment that is free from all forms of discrimination.

C. Nondiscrimination in Subcontracting Practices - During the term of this Contract, the Contractor shall not create barriers to open and fair opportunities to participate in County contracts or to obtain or compete for contracts and subcontracts as sources of supplies, equipment, construction and services. In considering offers from and doing business with subcontractor and suppliers, the Contractor shall not discriminate against any person because of their sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except by minimum age and retirement provisions, unless based upon a bona fide occupational qualification.

D. Compliance with Laws and Regulations - The Contractor shall comply fully with all applicable federal, state and local laws, ordinances, executive orders and regulations that prohibit discrimination. These laws include, but are not limited to, RCW Chapter 49.60, Titles VI and VII of the Civil Rights Act of 1964, the American with Disabilities Act, and the Restoration Act of 1987. In addition, King County Code chapters 12.16, 12.17 and 12.18 are incorporated herein by reference and the requirements in these code sections shall specifically apply to this contract. The Contractor shall further comply fully with any equal opportunity requirements set forth in any federal regulations, statutes or rules included or referenced in the contract documents.

3.21 Requirements of King County Living Wage Ordinance

In accordance with King County Ordinance 17909, as a condition of award for contracts for services with an initial or amended value of $100,000 or more, the Contractor agrees that it shall pay and require all Subcontractors to pay a living wage as described in the ordinance, to

employees for each hour the employee performs a Measurable Amount of Work on this Contract. "Measurable Amount of Work" means a definitive allocation of an employee's time that can be attributed to work performed on a specific matter, but that is not less than a total of one hour in any one week period.

The requirements of the ordinance, including payment schedules, are detailed at http://www.kingcounty.gov/operations/procurement/Resources/ordinance-17909.aspx.

Violations of this requirement may result in disqualification of the Contractor from bidding on or being awarded a County contract for up to two years; contractual remedies including, but not limited to, liquidated damages and/or termination of the Contract; remedial action as set forth in public rule; and other civil remedies and sanctions allowed by law.

3.22 Non-Waiver of Breach

No action or failure to act by the County shall constitute a waiver of any right or duty afforded to the County under the Contract; nor shall any such action or failure to act by the County constitute an approval of, or acquiescence in, any breach hereunder, except as may be specifically stated by the County in writing.

3.23 Severability

Whenever possible, each provision of this Contract shall be interpreted to be effective and valid under applicable law. If any provision is found to be invalid, illegal, or unenforceable, then such provision or portion thereof shall be modified to the extent necessary to render it legal, valid, and enforceable and have the intent and economic effect as close as possible to the invalid, illegal, and unenforceable provision. If it is not possible to modify the provision to render it legal, valid and enforceable, then the provision shall be severed from the rest of this Contract. The invalidity, illegality or unenforceability of any provision shall not affect the validity, legality or enforceability of any other provision of this Contract, which shall remain valid and binding.

3.24 Certification Regarding Debarment, Suspension and Other Responsibility Matters

If this Contract is a covered transaction for purposes of 49 CFR Part 29, the Contractor is required to verify that none of the Contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945. The Contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into. By signing and submitting this Contract, the Contractor certifies as follows:

The certification in this clause is a material representation of fact relied upon by King County. If it is later determined that the Contractor knowingly rendered an erroneous certification, in addition to remedies available to King County, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The Contractor agrees to comply with the requirements of 49 CFR 29, Subpart C while performing this Contract and further agrees to include a provision requiring such compliance in its lower tier covered transactions.

3.25 Incorporation of Documents

The contract between the awarded bidder and King County shall include all documents mutually entered into at the time of contract award, specifically including the contract document, the solicitation, and the response to the solicitation. The contract must include, and be consistent with, the specifications and provisions stated in this solicitation. King County shall not be bound nor obligated to enter into or sign additional agreements and or documents other than those required by law.

SECTION 4 Specific Contractual Terms and Conditions

4.1 Contract Value

The estimated total value of this contract is approximately $500,000 - $550,000. King County will not be limited, restricted or bound by this dollar value, nor shall the County be obligated to purchase any items contained in this ITB.

4.2 Contract Term

The term of this Contract will be five (5) years, subject to the termination clauses contained herein. King County reserves the right to extend the term if determined to be in the best interest of the County.

Contracts or purchase orders will be issued by the County. Contract amendments or change orders issued by the County may reflect modification(s) of contract terms, funding or other matters.

King County reserves the right to purchase the goods or services described herein from other sources. The Contractor does not have the exclusive right to fill all of the County's requirements for the goods or services awarded nor will the County be obligated to purchase the estimated annual quantity, or any quantity contained in this Contract.

4.3 Price Revisions

Prices shall remain firm for the duration of the Contract period. The Contractor may request price changes, and shall supply documentation satisfactory to King County such as changes to the Producers Price Index for the commodity, the Consumer Price Index for the Seattle-Tacoma-Bremerton area, or a manufacturer's published notification of price change(s). Reasonable price changes based on market conditions and price/cost analysis may be approved by King County.

King County will evaluate this information to determine if revising the pricing is considered fair and reasonable to the satisfaction of King County. Requests for any such change are to be made in writing to the Buyer in the Procurement Services Division office. A written change order issued by the County will institute the price adjustment, provide the new prices and establish the effective date for the new prices.

The Contractor shall endeavor to give the King County Procurement Services Section thirty (30) days but not less than fourteen (14) days written notice prior to the effective date of the price increase. The County may cancel the contract if the price increase request is not approved.

All price reductions at the manufacturer's or distributor's level shall be reflected in a reduction of the contract price(s) to King County retroactive to the effective date of the price reductions.

4.4 Shipping Charges

All prices shall include freight FOB to the designated delivery point. The County will reject requests for additional compensation for freight charges.

4.5 Packing Slips

Each delivery to the County shall have a packing slip enclosed that identifies the requester, purchase order number, part number, unit price and quantity of each part shipped. If the delivery is a partial shipment, indicate on the packing slip that it is not a complete shipment of that order and identify the items not shipped and provide a projected completion date of the order.

If the delivery combines items from more than one purchase order, separate packing slips shall be included in the shipment for each.

4.6 Use Report

The Contractor shall, if requested, submit to the Buyer a report of sales made to King County under this Contract. The report, in a format acceptable to King County, shall identify the detail required by the Buyer, which may include but is not limited to, delivery location, the item description, whether it's a Contract or non-Contract item, quantity, price and discount.

4.7 Warranty

The Contractor warrants that the work performed under this Contract shall be free from defects in material and workmanship, and shall conform to all requirements of this Contract, for a period of at least five (5) years from date of acceptance of such work by the County. Any work corrected shall be subject to this subsection to the same extent as the work initially provided.

All equipment, excluding failures due to weather damage, as well as software and firmware upgrades, shall be covered under this warranty. Successful bidder shall provide loaner equipment in the event that components are required to be sent in for repair. The intent of this warranty is provide the King County Sheriff's Department with a fully functioning and dependable downlink solution for the duration of the warranty period without incurring additional and unforeseen maintenance costs

The bidder shall provide, upon request by the County, their standard warranty. The warranty shall be specific for all components of the equipment regardless of whether these components were built by the original equipment manufacturer or outside suppliers. King County may avail itself of the bidder or manufacturer's standard warranty if more beneficial to the County.

Conducting of tests or inspections, acceptance, or the processing of payment(s) by the County shall not constitute a waiver of any rights under this Contract or in law. The termination of this Contract shall in no way relieve the Contractor from its warranty responsibility.

The Contractor shall ensure that the warranty requirements of this Contract are enforceable through and against the Contractor's suppliers, vendors, distributors and Subcontractors. The Contractor shall cooperate with the County in facilitating warranty related work by such suppliers, vendors, distributors and Subcontractors.

Contractor warrants that the Services shall in all material respects conform to the requirements of this Contract. Contractor warrants that qualified professional personnel with in-depth knowledge shall perform the Services in a timely and professional manner; and that the Services shall conform to the standards generally observed in the industry for similar Services.

Contractor warrants that the Services shall be in compliance with all applicable laws, rules and regulations.

4.8 Warranty Remedies

Whenever possible, the contractor shall provide "on the spot" settlement of warranty claims or disputes, and authorize local representatives to act on the equipment manufacturer's behalf.

If at any time during the twelve (12) month period immediately following acceptance of any work covered by this Contract, Contractor or the County discovers one or more material defects or errors in the work or any other aspect in which the work materially fails to meet the provisions of the warranty requirements herein Contractor shall, at its own expense and within thirty (30) days of notification of the defect by the County, correct the defect, error or nonconformity.

The County shall give written notice of any defect to the Contractor. If the Contractor has not corrected defect within thirty (30) days after receiving the written notice, the County, in its sole discretion, may correct the defect itself. In the case of an emergency where the County believes delay could cause serious injury, loss or damage, the County may waive the written notice and correct the defect. In either case the County shall charge-back the cost for such warranty repair to the Contractor.

The Contractor is responsible for all costs of repair or replacement in order to restore the work to the applicable Contract requirements, including shipping charges, for work found defective within the warranty period, regardless of who actually corrects the defect.

4.9 Pricing of Spare Parts

The County shall have the right to conduct a cost or Price Analysis on specific spare parts if pricing appears to be in excess of standard industry pricing for similar parts. Any difference shall be subject to negotiations to the satisfaction of the County. The County is not required to purchase spare parts under this contract if it can purchase the same item(s) from another source under terms that are more advantageous to the County.

4.10 Product Return

The County reserves the right to return standard products to the Contractor for full refund or credit when the Contractor is notified of the return within 30 days of the County's receipt of products.

The County further reserves the right to return products, parts and supplies determined to be surplus and no longer required by the County. Parts and supplies eligible for return to the Contractor shall have been purchased for inventory or as spares, be unused, and in the same general condition as when received. The County will advise the Contractor of its intention to return any parts and supplies. The Contractor has no obligation to accept such goods more than 2 years after the County's receipt of said goods. The Contractor is allowed a restocking fee of not more than 15% (fifteen percent) of the current price for the return of surplus products, parts and supplies.

The Contractor shall, at the County's option, issue a credit for the dollar value of the merchandise returned or refund that dollar amount (less any applicable restocking fee) to King County. This subsection does not apply to any merchandise made to order for the County.

4.11 Compliance with Section 504 of the Rehabilitation Act of 1973, as amended (Section 504) and the American with Disabilities Act of 1990 as amended (ADA)

Pursuant to Title II of the ADA, and Section 504, King County must not discriminate against people with disabilities in providing services, programs or activities even if those services, programs or activities are carried out by contractors. The Contractor agrees that it shall provide all programs, services, and activities to County employees or members of the public under this Contract in the same manner as King County is obligated to under Title II of the ADA, and Section 504 and shall not deny participation or the benefits of such services, programs, or activities to people with disabilities on the basis of such disability. Failure to comply with this section shall be a material breach of, and grounds for the immediate termination of, this Contract.

The Contractor agrees to provide to persons with disabilities access to programs, activities and services provided under the Contract or agreement, as required by the disability access laws as defined by KCC 12.16; and:

The Contractor shall not discriminate against persons with disabilities in providing the work under the Contract. In any subcontracts for the programs, activities and services under their Contract or agreement with the County, the Contractor shall include the requirement that the subcontract provide to persons with disabilities access to programs, activities and services provided under the Contract or agreement, as required by the disability access laws as defined by KCC 12.16, that the subcontractor shall not discriminate against persons with disabilities in providing the work under the Contract and that the subcontractor shall provide that the County is a third party beneficiary to that required provision.

4.12 Independent Status of Contractor

In the performance of this Contract, the parties shall be acting in their individual, corporate or governmental capacities and not as agents, employees, partners, joint ventures, or associates of one another. The parties intend that an independent contractor relationship shall be created by this Contract. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purpose whatsoever. Contractor shall not make any claim of right, privilege or benefit, which would accrue, to an employee under chapter 41.06 RCW or Title 51 RCW.

4.13 Non-Disclosure Obligation

Data provided by the County either before or after Contract award shall only be used for its intended purpose. Contractors and Subcontractors shall not utilize nor distribute the County data in any form without the express written approval of the County.

While performing the work under this Contract, the Contractor may encounter personal information, licensed technology, Software, Documentation, drawings, schematics, manuals, data and other materials described as "Confidential", "Proprietary" or "Business Secret". The Contractor shall not disclose or publish the information and material received or used in

performance of this Contract. This obligation is perpetual. The Contract imposes no obligation upon the Contractor with respect to confidential information which the Contractor can establish that: a) was in the possession of, or was rightfully known by the Contractor without an obligation to maintain its confidentiality prior to receipt from the County or a third (3rd) party; b) is or becomes generally known to the public without violation of this Contract; c) is obtained by the Contractor in good faith from a third (3rd) party having the right to disclose it without an obligation of confidentiality; or, d) is independently developed by the Contractor without the participation of individuals who have had access to the County's or the third (3rd) party's confidential information. If the Contractor is required by law to disclose confidential information the Contractor shall notify the County of such requirement prior to disclosure.

4.14 Insurance Requirements

Prior to the award of a contract, the Contractor shall obtain and maintain the minimum insurance set forth herein for the duration of this contract for itself and any subcontractor performing work. By requiring such minimum insurance, the County shall not be deemed or construed to have assessed the risks that may be applicable to the Contractor under this Contract. The Contractor shall assess its own risks and, if it deems appropriate and/or prudent, maintain greater limits and/or broader coverage. The Contractor shall maintain limits and scope of insurance no less than:

General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage, and for those policies with aggregate limits, a $2,000,000 aggregate limit;

Automobile Liability: $1,000,000 combined single limit per accident for bodily injury and property damage;

Workers' Compensation: Statutory requirements of the state of residency;

Employers Liability Stop Gap: $1,000,000

Except for Workers Compensation, the county, its officers, officials, employees and agents are to be covered as additional insureds as respects liability arising out of activities performed by or on behalf of the Contractor in connection with this Contract. Use the above exact language on the Endorsement Form. **The County requires this Endorsement to complete the Contract.**

SECTION 5 Federal and State Contracting Provisions

It is the contractor's responsibility to comply with all state and federal law in performing the tasks undertaken with respect to this contract. As applicable and required by Federal and State Law, the following provisions and references are included in this contract:

5.1 Equal Employment Opportunity

All contracts shall contain a provision requiring compliance with E.O. 11246, "Equal Employment Opportunity," as amended by E.O. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."

5.2 Copeland "Anti-Kickback" Act (18 U.S.C. 874 and 40 U.S.C. 276c)

All contracts and subcontracts in excess of $2,000 for construction or repair awarded by recipients and subrecipients shall include a provision for compliance with the Copeland "Anti-Kickback" Act (18 U.S.C. 874), as supplemented by Department of Labor regulations (29 CFR part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient shall be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he is otherwise entitled. The recipient shall report all suspected or reported violations to the Federal awarding agency.

5.3 Contract Work Hours and Safety Standards Act (40 U.S.C 327-333)

Where applicable, all contracts awarded by recipients in excess of $2,000 for construction contracts and in excess of $2,500 for other contracts that involve the employment of mechanics or laborers shall include a provision for compliance with Sections 102 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), as supplemented by Department of Labor regulations (29 CFR part 5). Under Section 102 of the Act, each contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than 1 ½ times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Section 107 of the Act is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

5.4 Rights to Inventions Made Under a Contract or Agreement

Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 37 CFR part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

5.5 Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), as amended

Contractors and subcontracts of amounts in excess of $100,000 shall contain a provision that requires the recipient to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.) Violations shall be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

5.6 Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Contractors who are awarded contracts of $100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying in non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.

5.7 Public Law 88-352, Title VI of the Civil Rights Act Of 1964(42 U.S.C. 2000d et seq.) (24 CFR Part 1)

The Contractor must comply with the provisions of "Public Law 88-352," which refers to Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.). The law provides that no person in the United States shall, on the grounds of race, color or national origin, be denied the benefits of, be excluded from participation in, or be subjected to discrimination under any program or activity receiving federal financial assistance.

5.8 Section 504 of The Rehabilitation Act, 1973, As Amended (29 U.S.C. 794)

The Contractor must comply with Section 504 of the Rehabilitation Act of 1973, as amended, which provides that no otherwise qualified individual shall, solely by reason of his or her disability, be excluded from participation (including employment), denied program benefits or be subjected to discrimination under any program or activity receiving federal assistance funds.

5.9 Americans With Disabilities Act (42 U.S.C. 12101, et seq.)

The Contractor shall comply with the provisions of the Americans with Disabilities Act, 42 U.S.C. 12101, et. seq. That Act provides a comprehensive national mandate to eliminate discrimination against individuals with disabilities. The Act may impose requirements on the Contractor in four principle ways: 1) with respect to employment; 2) with respect to the provision of public services; 3) with respect to transportation; 4) with respect to existing facilities and new construction.

5.10 The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C Section 4321 et seq., and 24 CFR Part 58)

The Contractor shall comply with the provisions of the National Environmental Policy Act of 1969. The purpose of this Act is to attain the widest use of the environment without degradation, risk to health or safety, or other undesirable and unintended consequences.

Environmental review procedures, including determining and publishing a Finding of Significance or of No Significance for a proposal, are a necessary part of this process. Pursuant to these provisions, the Contractor must also submit environmental certifications to King County when requesting that funds be released for the project. The Contractor must certify that the proposed project will not significantly impact the environment and that the Contractor has complied with environmental regulations and fulfilled its obligations to give public notice of the funding request, environmental findings and compliance performance.

5.11 Executive Order 11990, May 24, 1977: Protection Of Wetlands (42 F.R. 26961 et seq.)

The Contractor shall comply with Executive Order 11990. The intent of this Executive Order is (1) to avoid, to the extent possible, adverse impacts associated with the destruction or modification of wetland, and (2) to avoid direct or indirect support of new construction in wetlands wherever there is a practical alternative.

The Contractor, to the extent permitted by law, must avoid undertaking or providing assistance for new construction located in wetlands unless (1) there is no practical alternative to such construction, and (2) the proposed action includes all practical measures to minimize harm to wetlands which may result from such use. In making this determination, the Contractor may take into account economic, environmental and other pertinent factors.

5.12 Executive Order 11988, May 24, 1977: Floodplain Management (42 F.R. 26951 et seq)

The Contractor shall comply with the provisions of Executive Order 11988. The intent of this Executive Order is to (1) avoid, to the extent possible, adverse impacts associated with the occupancy and modification of floodplains, and (2) avoid direct or indirect support of floodplain development wherever there is a practical alternative. If the Contractor proposes to conduct, support or allow an action to be located in a floodplain, the Contractor must consider alternatives to avoid adverse effects and incompatible involvement in the floodplain. If siting in a floodplain is the only practical alternative, the Contractor must, prior to taking any action (1) design or modify its actions in order to minimize any potential harm to the floodplain, and (2) prepare and circulate a notice containing an explanation of why the action is proposed to be located in a floodplain.

5.13 The Wild And Scenic Rivers Act Of 1968, As Amended (16 U.S.C. 1271 et seq.)

The Contractor shall comply with the Wild and Scenic Rivers Act. The purpose of this Act is to preserve selected rivers or sections of rivers in their free-flowing condition, to protect the water quality of such rivers and to fulfill other vital national conservation goals. Federal assistance by loan, grant, license, or other mechanism cannot be provided to water resources construction projects that would have a direct and adverse effect on any river included or designated for study or inclusion in the National Wild and Scenic River System.

5.14 Coastal Zone Management Act Of 1972, As Amended (16 U.S.C. 1451 et seq.)

The Contractor shall comply with the Coastal Zone Management Act of 1972, as amended. The intent of this Act is to preserve, protect, develop, and where possible, restore or enhance the resources of the nation's coastal zone. Federal agencies cannot approve assistance for proposed projects that are inconsistent with the state's Coastal Zone Management program

except upon a finding by the U.S. Secretary of Commerce that such a project is consistent with the purpose of this chapter or necessary in the interests of national security.

5.15 The Endangered Species Act Of 1973, As Amended (16 U.S.C. 1531 et seq.)

The Contractor shall comply with the Endangered Species Act of 1973, as amended. The intent of this Act is to ensure that all federally assisted projects seek to preserve endangered or threatened species. Federally authorized and funded projects must not jeopardize the continued existence of endangered and threatened species or result in the destruction of or modification of habitat of such species which is determined by the U.S. Department of the Interior, after consultation with the state, to be critical.

5.16 The Reservoir Salvage Act Of 1960, As Amended By The Archaeological And Historic Preservation Act Of 1974 (16 U.S.C. 469 et seq.)

Under the Reservoir Salvage Act, the Contractor must comply with provisions for the preservation of historical and archaeological data (including relics and specimens) that might otherwise be irreparably lost or destroyed as a result of any alteration of the terrain caused as a result of any federal construction project or federally licensed activity or program. Whenever the Contractor finds, or is notified in writing by an appropriate historical or archaeological authority, that its activities in connection with any federal funded construction project or federally licensed project, activity or program may cause irreparable loss or destruction of significant scientific, prehistoric, historical or archaeological data, the Contractor must stop work immediately and must notify the U.S. Secretary of Interior and the Department in writing and provide appropriate information concerning the project or program activity.

5.17 The Archaeological And Historical Data Preservation Act Of 1974 (16 U.S.C. 469 a-1 et seq.)

The Contractor shall comply with the Archaeological and Historical Data Preservation Act, which provides for the preservation of historic and archaeological information that would be lost due to development and construction activities as a result of federally funded activities.

5.18 The Safe Drinking Water Act Of 1974, As Amended (42 U.S.C. Section 201, 300(f) et seq., and U.S.C. Section 349)

The Contractor must comply with the Safe Drinking Water Act, as amended, which is intended to protect underground sources of water. No commitment for federal financial assistance, according to this Act, shall be entered into for any project, which the U.S. Environmental Protection Agency determines, may contaminate an aquifer that is the sole or principal drinking water source for an area.

5.19 The Federal Water Pollution Control Act Of 1972, As Amended, Including The Clear Water Act Of 1977, Public Law 92-212 (33 U.S.C. Section 1251 et seq.)

The Contractor must assure compliance with the Water Pollution Control Act, as amended, which provides for the restoration of chemical, physical and biological integrity of the nation's water.

5.20 The Solid Waste Disposal Act, As Amended By The Resource Conservation And Recovery Act Of 1976 (42 U.S.C. Section 6901 et seq.)

The Contractor must assure compliance with the Solid Waste Disposal Act, as amended. The purpose of this Act is to promote the protection of health and the environment and to conserve valuable material and energy resources.

5.21 The Fish And Wildlife Coordination Act Of 1958, As Amended (16 U.S.C. Section 661 et seq.)

The Contractor must assure compliance with the Fish and Wildlife Coordination Act, as amended. The Act assures that wildlife conservation receives equal consideration and is coordinated with other features of water resources development programs.

5.22 Relocation Assistance And Real Property Acquisition Policy, Chapter 8.26 RCW

The Contractor shall comply with the provisions of Chapter 8.26 RCW and Chapter 365-24 WAC when its activities involve any acquisition of real property assisted under this Agreement or the displacement of any family, individual, business, nonprofit organization or farm that results from such acquisition.

5.23 State Environmental Policy Act (SEPA), Chapter 43.21 (C) RCW

The Contractor shall comply with the provisions of Chapter 43.21(C) RCW and Chapter 197-11 WAC, the guidelines by which local agencies will (1) require environmental checklists from private and public entities considering an action potentially subject to the Environmental Impact Statement (EIS) requirement of SEPA, (2) make "threshold determinations" that such an action will not have a significant environmental impact, (3) provide for the preparation of a draft and final EIS if the action has significant impact, and (4) circulate the EIS to other agencies and interested parties.

5.24 Noise Control, Chapter 70.107 RCW

The Contractor shall assure compliance with the state Noise Control Act. Objectives of the Act are to assist local governments in implementing local noise ordinances and to control and reduce excessive noise in Washington.

5.25 Shoreline Management Act Of 1971, Chapter 90.58 RCW

The Contractor shall comply with the provisions of Chapter 90.58 RCW. This Act defines a planning program and a permit system, which are initiated at the local government level under state guidance. Its purpose is to protect and enhance the state's shoreline and it includes a comprehensive shoreline inventory process and a master program for regulation of shoreline uses. A permit application at the local level must be in compliance with those plans and consistent with the state Coastal Zone Management program if substantial developments and shoreline modifications occur, and a record of the application and decision must be submitted to the state.

5.26 State Building Code, Chapter 19.27 RCW; Energy Related Building Standards, Chapter 19.27A RCW; And Provisions In Buildings For Aged And Handicapped Persons, Chapter 70.92 RCW

The Contractor shall comply with the provisions of Chapter 19.27 RCW, Chapter 19.27A RCW, Chapter 70.92 RCW and the regulations for building construction and for barrier free facilities adopted by the Washington State Building Code Council pursuant to these statutes.

The State Building Code Act provides for a uniform state building code and mandates counties, cities and towns to administer and enforce its provisions. Local governments are authorized to modify the state building code to fit local conditions as long as such modifications do not result in a code that is less than the minimum performance standards and objectives contained in the state code.

5.27 Open Public Meetings Act, Chapter 42.30 RCW

The Contractor shall comply with provisions of Chapter 42.30 RCW which require that all meetings of the governing body which pertain to this Agreement shall be open to the public except those where specific provision is made for executive sessions pursuant to RCW 42.30.110.

5.28 Law Against Discrimination, Chapter 49.60 RCW

The Contractor shall comply with the provisions of Chapter 49.60 RCW in all activities relating to this Agreement.

5.29 Governor's Executive Order 89-10, December 11, 1989: Protection Of Wetlands, And Governor's Executive Order 90-04, April 21, 1990: Protection Of Wetlands

The Contractor shall ensure that it avoids any activities that would adversely affect wetlands and adequately mitigates unavoidable impacts. For the purposes of this requirement, except where a contrary definition is provided by statute, mitigation means: (1) avoiding the impact altogether by not taking certain action or part of an action; (2) minimizing impacts by limiting the degree or magnitude of the action and its implementation, by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts; (3) rectifying the impact by repairing, rehabilitating, or restoring the affected environment; (4) reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; (5) compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and (6) monitoring the impact and taking appropriate corrective measures.

Mitigation for individual actions may include a combination of the above measures. Mitigation may not include any of the above measures to the extent that they may be contrary to statute as applied under the particular circumstances. Emergency work that is essential to save lives and protect property and public health is exempt from these provisions.

5.30 Certification Regarding Debarment, Suspension and Other Responsibility Matters

This Contract is a covered transaction for purposes of 49 CFR Part 29. As such, the Contractor is required to verify that none of the Contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The Contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.

By accepting this Contract, the Contractor certifies as follows:

The certification in this clause is a material representation of fact relied upon by King County. If it is later determined that the Contractor knowingly rendered an erroneous certification, in addition to remedies available to King County, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The Contractor agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any Contract that may arise from this Contract. The Contractor further agrees to include a provision requiring such compliance in its lower tier covered transactions.

SECTION 6 Technical Specifications

6.1 Introduction

The King County Sheriff's Office (KCSO) is seeking to upgrade and expand its existing HD/SD microwave airborne video downlink surveillance capability. The KCSO supports public safety operations in King County and adjacent regions by providing airborne patrol, mutual aid, interagency support, and search and rescue capabilities.

6.2 Goals Of The Upgrade

The system upgrade defined in this ITB is required to provide the KCSO with a highly reliable video downlink microwave transmit, receive and distribution solution which addresses the following mission critical requirements.

A. Move from transmission in Standard Definition (SD) to High Definition (HD).

B. Utilize the latest technology to use an automatic switching system for the receive sites so the end users do not have to manually select between different receive site video feeds.

C. Utilize existing equipment that will be compatible with the upgrade.

D. Ease of use by operating personnel and end users.

E. Overlapping receive range within King, Pierce, and Snohomish Counties will be unified through the use of multiple interconnected and intelligent fixed diversity downlink receive site systems.

F. Simultaneous and independent video downlink transmissions by two aircraft operating within the specified coverage area.

G. The successful bidder shall be responsible for the design, engineering, installation, checkout, commissioning, documentation, training, and ongoing support for the complete system as further noted within this document.

H. The successful bidder's equipment shall be compatible with existing regional downlink equipment in at least a non-encrypted format.

6.3 Access

Real time video downlink content shall be accessible to tactical, command, dispatch, and support personnel via the following methods:

A. Direct aircraft viewing via frequency selective hand-held receive devices.

B. Command center viewing available in the following formats where needed; HD-SDI, SD-SDI, HDMI, IP and composite video formats to television monitors, and desktop and laptop computers.

C. Scaled IP streaming and distribution to remote command staff, dispatch and support personnel, as well as other authorized agencies via a secure media server. Must be viewable via desktop and laptop computers, smartphones, and handheld devices.

6.4 Downlink Network System Requirements

Aircraft transmit system - This project requires the provisioning of a high-power airborne digital HD/SD video transmitter, cockpit remote control panel, and external omni-directional antenna, in three (3) helicopters. All of the wiring, harnesses, connectors, and other cabling/installation pieces required shall be included in the bid.

6.5 RF Transmitter

Each of the three (3) aircraft will operate in the 6.425-6.525 GHz band and the RF transmitter systems must meet the following minimum requirements;

A. FCC Certified for Part 101, compliant with RTCA DO-160F.

B. Capable of transmitting a high-definition (HD) or standard-definition (SD) digital video signal using either MPEG-2, or MPEG-4/H.264.

C. Video inputs including HD-SDI, SD-SDI, Composite NTSC (up to two (2) independent composite analog standard definition video signals can be transmitted simultaneously in a single 8 MHz channel).

D. Conform to the DVB-T 2K transmission standard in 8 MHz of occupied bandwidth.

E. RF power output must be a minimum of +37dBm with a minimum MER of 23dB on each channel within the band extending from 6.425 – 6.525 GHz.

F. Capable of encrypting the signal using standards based Bcrypt1 and AES 128/256.

G. Include a night vision compatible cockpit remote control panel.

H. High-bandwidth wayside RS-232 data channel to support transmission of serial data at up to 115.2 Kbps.

I. Operate over a wide input voltage range of +10 – +32 Vdc.

J. Capable of storing at least six (6) user-defined preset configurations.

K. Set-up and configure presets as determined by the KCSO, bench test all functions and provide written report of transmitter performance prior to shipment.

L. Mount in a single/standard ARINC aircraft tray.

M. Integration of specified aircraft transmit systems will be completed with onsite guidance and technical support provided by at least one of the Contractor representatives. The aircraft integration shall occur in the Puget Sound area by an integrator selected by the King County Sheriff's Office. The cost of the integration will be borne by King County Sheriff's Office and is not part of this bid.

N. Provide on-site technical/engineering support to ensure proper transmit system operation prior to flight test. This includes measuring proper RF power at antenna connection and confirming proper video performance utilizing a test/portable receiver at the ramp location.

O. Transmitter shall be compatible in at least a non-encrypted format with existing regional receiver equipment, both hand-held and fixed location receiver sites currently in place that were sold by Broadcast Microwave Services (BMS).

P. Transmitter must not interfere with existing aircraft communications or navigation systems, such as RADAR Altimeter, or aircraft VHF radios.

6.6 Omni-Directional Antenna

For desired system performance and cost considerations, only a single fixed position omni-directional antenna shall be proposed for each of the three (3) aircraft and must meet the following minimum requirements. Only a single omni-directional antenna satisfies the requirements of this ITB for the purpose of; reliability, ease of use, reduction of mission equipment weight, reduced maintenance costs and the requirement for multiple and simultaneous receive site illumination as detailed further in the ITB under the receive site requirements in subsection 6.8.

A. Omni-directional (360 deg azimuth).

B. 6.425-6.525 GHz band operation.

C. 6 dBic gain, right hand circular polarity (RHCP), half-power BW of 30 degrees.

D. Minimum wind rating of one hundred-twenty (140) knots per hour.

E. Low profile (rated for external aircraft mounting), flange mounting plate, type N-female connector.

F. The antenna radiation pattern must simultaneously provide energy on the horizon for the fixed receive sites and energy directly below the aircraft to support portable and mobile tactical downlink receivers at the incident scene.

6.7 Cockpit Control Panel

The cockpit control panel must meet the following minimum requirements;

A. Single DZUS style aircraft panel mount.

B. Night vision compatible.

C. Independent channel and preset control knobs.

D. RF power HI/LO control knob.

E. Video present indicator.

F. RF power standby/transmit push button.

G. Control panel brightness adjustment.

6.8 Fixed Ground Receive Systems and Equipment

A. This project requires the provisioning of four (4) fixed ground receive systems that will be interconnected via IP networking using existing network infrastructure. The four (4) proposed fixed receive systems will overlap each other in coverage and work in conjunction with each other to create a single wide-area diversity receive network through a process of automatic site selection.

B. The ground based fixed receive network utilizes automatic site selection to present the end user with a single and uninterrupted airborne video stream by autonomously selecting the best video signal available from the interconnected sites. The video

downlink receive solution shall support the independent and simultaneous operation/viewing of two aircraft anywhere within the specified coverage area.

6.9 RF Receiver

Each of the four (4) fixed ground receive sites must meet the following minimum requirements:

A. Each receive system shall operate over the range of 6.425 – 6.525 GHz and demodulate an 8 MHz DVB-T 2K COFDM signal.

B. Each site shall be provisioned with two (2) RF receivers for multi-aircraft operation and redundancy.

C. Each site shall have provisions for a future third RF receiver.

D. Each receiver shall be capable of receiving 6 IF signals from the tower mounted antenna/down-converter assemblies.

E. Each fixed receiver shall have the capability of providing two physically independent IP output streams using either UDP, or RTP and in addition, must support SMPTE 2022 2D FEC.

F. Each receiver site shall utilize a high-performance COFDM downlink receiver system featuring six-input Maximum Ratio Combining (Max R/C) technology.

G. Each receiver shall have decryption capability to decrypt AES-128, AES-256, B-Crypt1-128, B-Crypt1-192, and B-Crypt1-256.

H. Each receiver shall have the capability to decrypt and re-encrypt video streams using AES-128, AES-256, B-Crypt1-128, B-Crypt1-192, and B-Crypt1-256 or clear (non-encrypted) transmission over each of the two streaming outputs to support downstream IP network transport flexibility.

I. Each receiver shall have the capability to pass-through the encrypted signal without any decryption or re-encryption over each of the two streaming outputs to support downstream IP network transmission.

J. Encryption key management for each decryption facility shall be password protected and available locally or remotely.

K. Each receiver shall have an integrated front panel confidence monitor to provide real-time viewing of the received video.

L. Each receiver shall facilitate remote monitoring and control functions using a web based graphical user interface to include the following minimum functions;

1. Change RF channels.
2. Block-downconverter band selection.
3. Encryption and decryption control and function.
4. Preset storage, selection, and recall.
5. RCL and SNR values.
6. DVBT COFDM TPS values.

7. System network settings.
8. IP streaming configuration settings.

M. Each receiver shall provide DC power at every IF input port to supply power to the tower mounted block down-converters.

N. Each receiver shall incorporate an internal resettable fuse on each IF input.

O. Each receiver shall have an ASI output.

P. Each site shall have a completely separate and passive, rack mounted, IF distribution device consisting of six 1x4 splitters. The splitter outputs are to be allocated and identified as Receiver-1, Receiver-2, Receiver-3, and Test Point. All splitter output ports shall be diode isolated for DC protection.

Q. A separate rack mountable distribution device is required so that any of the associated receivers can be removed and or replaced, or the IF spectrum can be monitored without interrupting service to any other receiver. Unused ports will be terminated.

R. Provide on-site survey, design, engineering, installation and test support to ensure proper receive system operation. This includes measuring proper RF receive levels at receivers and confirming proper IP video/composite video performance.

S. Receiver system must be compatible in at least a non-encrypted format with existing transmitter systems sold by Broadcast Microwave Services that are in use by other agencies within the region.

6.10 RF Antenna and Transmission Line Systems

Each of the four (4) fixed ground 6.425-6.525 GHz RF antenna systems must meet the following minimum requirements;

A. An antenna system utilizing six-way diversity shall be utilized at each of the fixed receive sites.

B. A total of at least four (4) fixed, high-gain antenna systems shall be required.

C. Each antenna system shall consist of the following;

1. High-gain linear polarized sector type antennas shall be used to cover 360 degrees around the antenna site without any gaps. The receive site shall also have the ability to receive when the aircraft is overhead of the site. Each antenna shall have a minimum gain of 13 dBi. All sector panel antennas shall be independently adjustable for mechanical elevation and azimuth adjustments.

D. Each down-converter shall have adjustable gain (normal – 38 dB typ., high – 53 dB typ).

E. Each down-converter shall have a way to display performance.

F. Each down-converter shall have input filtering for protection from overload due to UHF transmissions.

G. Outdoor NEMA-4 enclosures, each containing PolyPhaser lightning protection and RF filtering shall be used to house the BDC units and are required due to the harsh outdoor operating environment if the BDC units are mounted outside.

H. All RF and IF interconnection cables shall be equal or greater in performance and durability to Times Microwave LMR 400 and Belden 1694A RG6 respectively high-quality low-loss coaxial cables and properly weatherproofed and grounded. All IF cables entering the site shelter must have their shield grounded prior to entering the site shelter and must be PolyPhaser lightning protected just beyond the shelter entrance port.

I. All tower mounted equipment shall incorporate PolyPhaser lightning protection and Motorola R56 standards for grounding.

J. Provide on-site survey, design, engineering, installation and acceptance testing to ensure proper receive antenna and transmission line system operation. This includes measuring proper RF/IF receive levels, confirming proper performance, and no interference with existing on-site equipment.

6.11 Video Decoders

This project requires a total of ten (10) video decoders, two (2) associated with each fixed receive site for a total of eight (8) and two (2) additional decoders at the output of the final voted IP stream, of each of the two receive systems. Each of the ten (10) video decoders must meet the following minimum requirements;

A. Each site shall incorporate two (2) MPEG-2, MPEG-4/H.264 digital video decoders.

B. Each decoder shall provide the following signal inputs;

1. ASI.
2. IP-UDP or RTP with optional SMPTE 2022 2D FEC.

C. Each decoder shall provide the following signal outputs;

1. HD-SDI.
2. SD-SDI.
3. HDMI.
4. IP-UDP/RTP SMPTE 2022 2D FEC or ASI.
5. Composite video.

D. Provide two (2) rack mounted HD-SDI High Definition video monitors at the core IP receiving area to view the output of the final voted IP stream of each of the two (2) receive systems. These monitors can be configured in a side-by-side 19" rack mount configuration and must have looping input/output capability.

E. Provide on-site survey, design, engineering, installation and test support to ensure proper video decoder system operation. This includes confirming proper input/output levels and confirming proper video performance.

6.12 Data Network Infrastructure Systems

This project requires that the existing data network infrastructure will be utilized between the four (4) proposed fixed ground receive systems.

A. This existing data network shall provide the appropriate IP connectivity and bandwidth between all locations utilizing either optical fiber or copper based transmission systems.

B. It will be the responsibility of the King County Sheriff's Office to provide the appropriate connection and bandwidth at each location, of at least 20 Mbps total bandwidth, for payload and control functions.

C. An appropriate network switch or router shall be in place at each remote location for connection to the proposed fixed receive system components.

D. Successful bidder shall be responsible for the installation of all data network cabling between new equipment and existing network devices with coordination of the network owner, i.e. KC Information Technology.

6.13 Automatic Site Selection System and Installation

This project requires the implementation of a hardware based automatic site selection device/solution so that a continuous video feed is presented to intranet (internal) and internet (external) users as each aircraft roams throughout the composite coverage area represented by the four (4) strategic fixed receive sites. The automatic site selector shall compare and select the best data stream from the four (4) fixed receive sites and eight (8) associated receivers as follows;

A. Output 1 - Compares the #1 receiver at each of the four (4) remote sites.

B. Output 2 - Compares the #2 receiver at each of the four (4) remote sites.

C. The automatic site selector solution shall be ready to accept at least six (6) additional receivers, three (3) per each of the two (2) streaming channels, as part of future expansion efforts.

D. System must support Forward Error Correction (FEC) to help ensure data integrity during network transport.

E. This unit must have redundant power supplies.

F. This solution must be able to provide an uninterrupted IP video stream for the proposed two (2) channel receive system as it automatically selects the best receive stream.

G. This solution shall have the option for future expansion of added receive sites.

H. Provide on-site survey, design, engineering, installation and test support to ensure proper automatic site selection system operation. This includes confirming proper IP inputs/outputs and overall operational performance.

I. Complete the installation of the automatic site selection device/solution at the Renton site, including equipment racking, and all data network and electrical connections. Complete programming/configuration of device(s). Provide final as-built drawings and photographs at completion of installation.

J. Complete data network/IP video performance testing on the automatic site selection system after installation and prior to flight testing. Test and fail inputs to ensure proper output and automatic switching operation.

6.14 Video Distribution Servers Installation, Testing and Acceptance

This project requires the implementation of one (1) video distribution server system associated with the Renton receive site, which is also the main hub/automatic site selection location for the proposed network. The video distribution server must meet the following minimum requirements and support the following functions;

A. Must be a 19" rack mounted dedicated server with redundant power supplies.

B. Must include a monitor, keyboard and mouse.

C. Must include a RAID 5 configuration for system redundancy.

D. Must include two (2) network interface ports.

E. Customizable front page/log-in point with individual user access accounts.

F. Multiple levels of access supported.

G. Manufacturer supported ability to modify web pages.

H. Customization of web pages (insertion of logos, video watermarks and backgrounds).

I. Must support transcoding to all major platforms (iOS, Android, PC and Mac).

J. Must trans-rate for network bandwidth efficiency, capable of rendering high-quality video down to sub 500 Kbps rates to end users.

K. Server must auto-detect user platform and determine best available data-rate for video delivery.

L. Server must support at least 300 users simultaneously, dependent upon network bandwidth and connection speed at each facility.

M. Support inbound video streams over multiple protocols, including but not limited to: RTSP, RTP and UDP.

N. Support restriction of unauthorized users based upon network specifics (ex: IP Address or Domain).

O. Server must include at least 1TB hard-drive storage for record/store capability.

P. Provide on-site survey, design, engineering, installation and test support to ensure proper video distribution server operation. This includes confirming proper IP inputs/outputs and streaming performance.

Q. Complete all data network and electrical connections.

R. Provide final as-build drawings and photographs at completion of installation.

S. Complete data network/IP video performance testing on a video distribution server system after installation and prior to flight testing. Test system by streaming stored content and viewing on both intranet and Internet connected devices at varying bandwidths. Test platforms such as iOS, Android, PC, and Mac.

6.15 Fixed Ground Receive Site Location and Information

As described above in Fixed Ground Receive Systems and Equipment (subsection 6.8), this project requires the provisioning of four (4) fixed ground receive systems. Sites are subject to change prior to commencement of project, but will remain similar in installation scope to the locations listed below. Each of the four (4) fixed receive sites has been chosen based on the following criteria;

A. Geographic location for overlapping RF coverage.

B. Availability of suitable infrastructure, including appropriate tower and shelter space.

C. Availability of appropriate data network infrastructure for interconnection.

D. Consideration of recurring expense.

6.16 Fixed Receive Site Survey, Engineering and Installation

Contractor shall complete a detailed survey of the fixed receive site to confirm antenna elevations, methods of attachment, cable lengths, building entrance port requirements, lightning protection, grounding requirements, rack mount equipment locations, electrical requirements and data network connectivity requirements. Contractor shall provide written scope of work to King County Sheriff's Office prior to commencement of work.

Complete the installation of a fixed receive site, including antenna mount fabrication, antenna installations and alignment, RF cables, BDC/NEMA enclosures, IF cables, including all cable attachment hardware, building entrance ports, lightning protection devices, ground buss-bars and wires, installation of rack mounted equipment and all data network, video and electrical connections. Complete programming/configuration of receivers, decoders, and video monitors. Provide final as-built drawings and photographs at completion of installation.

6.17 Fixed Receive Site Testing and Acceptance

Complete RF/video performance testing on fixed receive site after installation and prior to flight testing. Test IF levels at receiver to ensure proper operation. Test video performance and encryption/decryption function by utilizing portable test transmitter to simulate aircraft operation. Confirm proper operation on both rack mount receivers prior to aircraft test flight.

6.18 Fixed Receive Site #1 – Seattle

A. Is six (6) miles north of Seattle, WA.

B. One hundred eighty (180) foot monopole structure.

C. Antennas to be mounted on crows-nest at top of tower.

D. Cables to be supported within monopole using hoisting grips.

E. Estimated cable run length from antennas to base of tower is two hundred fifty (250) feet.

F. Existing horizontal cable tray will support cables from monopole base to building.

G. Estimated cable run length from base of tower to building entrance port is twenty-five (25) feet.

H. Cables to be secured with cushion type clamps every three (3) feet for horizontal run.

I. Existing four (4) inch cable entrance port can be used for cable entrance into building.

J. All cable shields will be grounded prior to entering building.

K. All cables to have PolyPhaser lightning protection devices at entrance port.

L. New ground buss-bar must be installed inside building to support PolyPhaser lightning protection devices.

M. New buss-bar to be attached to existing grounding per Motorola R56 standards.

N. Estimated cable run length from building entrance port to equipment rack is fifty (50) feet.

O. An existing equipment rack will be used to support new equipment at this site.

P. Existing one hundred ten (110) volt electrical power is available at the top of the equipment rack.

Q. Data network cable length from equipment location is approximately twenty-five (25) feet.

R. No composite video connectivity will be required at this site.

S. This site currently has approximately two (2) year old BMS equipment installed. It is desirable to utilize as much of the existing equipment as possible.

6.19 Fixed Receive Site #2– Renton

A. Is eleven (11) miles southeast of Seattle, WA.

B. One hundred eighty (180) foot self-support tower.

C. Antennas to be mounted at top of tower.

D. Existing vertical cable ladder will support cables on tower.

E. Estimated cable run length from antennas to base of tower is one hundred sixty (160) feet.

F. Cables to be secured with cushion type clamps every three (3) feet for vertical run.

G. Existing horizontal cable tray will support cables from base of tower to building.

H. Estimated cable run length from base of tower to building entrance port is ten (10) feet.

I. Cables to be secured with cushion type clamps every three (3) feet for horizontal run.

J. Existing four (4) inch cable entrance port can be used for cable entrance into building.

K. All cable shields will be grounded prior to entering building.

L. All cables to have PolyPhaser lightning protection devices at entrance port.

M. New ground buss-bar must be installed inside building to support PolyPhaser lightning protection devices.

N. New buss-bar to be attached to existing grounding per Motorola R56 standards.

O. Estimated cable run length from building entrance port to equipment rack is fifty (50) feet.

P. An existing equipment rack will be used to support new equipment at this site.

Q. Existing one hundred ten (110) volt electrical power is available at the base of the equipment rack.

R. Data network cable length from equipment location is approximately twenty-five (25) feet.

S. This location is the final viewing and internet protocol (IP) distribution site for the downlink network.

T. The two (2) IP decoders will be located in EOC equipment area of the facility.

U. Data network cable length from site selector to IP decoders is approximately three hundred (300) feet.

6.20 Fixed Receive Site #3 – Valley Communications Center, Kent

A. Is fifteen (15) miles southeast of Seattle, WA.

B. One hundred fifty (150) foot self-support tower.

C. Antennas to be mounted at top of tower.

D. Existing vertical cable ladder will support cables on tower.

E. Estimated cable run length from antennas to base of tower is one hundred sixty (160) feet.

F. Cables to be secured with cushion type clamps every three (3) feet for vertical run.

G. Existing horizontal cable tray will support cables from base of tower to building.

H. Estimated cable run length from base of tower to building entrance port is ten (10) feet.

I. Cables to be secured with cushion type clamps every three (3) feet for horizontal run.

J. Existing four (4) inch cable entrance port can be used for cable entrance into building.

K. All cable shields will be grounded prior to entering building.

L. All cables to have PolyPhaser lightning protection devices at entrance port.

M. New ground buss-bar must be installed inside building to support PolyPhaser lightning protection devices.

N. New buss-bar to be attached to existing grounding per Motorola R56 standards.

O. Estimated cable run length from building entrance port to equipment rack is seventy-five (75) feet.

P. An existing equipment rack will be used to support new equipment at this site.

Q. Existing one hundred ten (110) volt electrical power is available at the base of the equipment rack.

R. Data network cable length from equipment location is approximately twenty-five (25) feet.

S. The two (2) IP decoders will be located in equipment area of the facility.

T. Data network cable length from site selector to IP decoders is approximately two hundred (200) feet.

6.21 Fixed Receive Site #4- TBD

6.22 Video Downlink Network Testing and Acceptance

Complete final video downlink network flight testing utilizing KCSO aircraft. Confirm autonomous switching and uninterrupted video performance through the intended coverage area. Confirm 2-channel operation testing by utilizing two (2) KCSO aircraft. Observe proper switching by Automatic Site Selection System and induce fixed site failures to confirm switching. Confirm proper streaming through video distribution servers and to both intranet and Internet connected devices at varying bandwidths. Test platforms such as iOS, Android, PC, and Mac.

6.23 Communications Tower Structural Analysis/Engineering

As described above, this project requires the utilization of four (4) existing communication tower structures. Sites are subject to change prior to commencement of project, but will remain similar in installation scope to the locations listed below. At this time, three (3) self-support towers and one (1) monopole structure are candidates for the installation of the fixed diversity receive sites. Successful bidder shall provide the following services as required;

A. Complete structural engineering of existing communications tower/monopole support structure, as required, to determine if structure is capable of supporting new receive antenna systems.

   1. Seattle – Monopole structure.
   2. Renton – Self-support three leg tower.
   3. Valley Communications, Kent – Self-support three leg tower.
   4. TBD

B. KCSO or site owner will provide current/original structural engineering for each tower requiring revised structural analysis/engineering.

C. This requirement does not include retrofit or strengthening of a tower structure in the event it is determined that modifications are required.

6.24 Training

The Contractor shall provide the following training to King County Sheriff's Officers. All training provided to King County Sheriff's Officers shall be delivered and instructed by trainer(s) certified by the manufacturer of the video downlink system. All training shall be considered as certification level training for King County maintenance staff. The training shall be conducted at King County locations and will be scheduled at a time mutually agreeable with the Contractor and King County and not later than forty-five (45) days after training has been requested.

A. Training sessions for four (4) people designated by the King County Sheriff's Officers will cover installation, troubleshooting and field repair of components installed in the helicopter. Trainees shall each be provided one (1) printed manual during the training documenting all maintenance and troubleshooting procedures. The training manuals shall also include complete electrical schematics and parts diagrams listing all parts of the video downlink system.

B. Training session for two (2) people designated by King County Sheriff's Officers covering the operation of the system at the aircraft level, the end user video viewing level, and the administration of the video distribution level.

6.25 Support

The contractor shall provide product support including, but not limited to providing remote support for troubleshooting problems with the downlink system within twenty-four (24) business hours and if the problem cannot be resolved remotely, either on-site repair by the vendor or a one-for-one exchange of parts shall take place to resolve the problem within fourteen (14) business days.

SECTION 7 Bid Response

7.1 Rules of Price Evaluation

Bids meeting all requirements of this ITB will be evaluated on price. Bids stating price in effect at the time of shipment will not be accepted.

7.2 Delivery

Delivery is required as soon as possible and not later than ninety (90) days after placement of an order. Bid prices shall include delivery, FOB destination, to the following location(s):

RCECC
3511 Northeast 2nd Street
Renton WA 98056

Installation on the fixed receive site towers shall occur as soon as possible and not later than one hundred-twenty (120) days after placement of an order.

7.3 Bidder's Contact Information

A. Primary Location

Physical Address: 101 Billerica Avenue, North Billerica MA 01862

Mailing Address: SAME

Name of Contact Person: Christopher J. Gibbons

Email: christopher.gibbons@vislink.com

Telephone No. (Local/Toll Free): 800-490-5700

Fax No. (Local/Toll Free): 978-671-5800

UBI No.: 603-519-092

Washington State Contractor's License (if applicable): N/A

State hours and days of operation:

Hours: 8 a.m. to 5 p.m. Days: Monday to Friday

7.4 Remit Address (where payment will be mailed):

Same as Physical Address Above

7.5 Retail and Stocking/Warehouse Facility Locations (if applicable)

The Contractor shall attach a separate list of the location(s) for all facilities including the address, contact name(s), email(s), telephone number(s), and fax number(s), for each facility.

7.6 Prompt Pay Discount

Prompt payment discounts offered by Contractors shall be used to calculate the low bid provided the discount offered allows a minimum of 20 days for payment. The number of days is calculated from the date of acceptance of goods or services or from the date a complete invoice is date stamped as received by King County, whichever event occurs last, and the check/warrant date. The County will take advantage of any prompt payment discount terms bid. Discount periods shall be extended if:

- The date printed on the invoice is more than three days earlier than the invoice receipt date;
- The delay is caused awaiting a credit memo, invoice correction, adjustment or reissue;
- An invoice is received prior to receiving goods ordered.

Prompt pay discount offered 0 **%** - 0 **Days, Net** N/A

7.7 Pricing

In the event of a discrepancy between the unit price and the extended price, the unit price will prevail. Failure to bid on all items may result in rejection of that bid.

See Attachment A – Pricing.

7.8 References

List the names and addresses of four (4) customers, for whom the bidder has performed or provided similar goods and/or services, preferably in Washington State, for a period not less than one (1) year. Include dates, contact persons and telephone numbers. Should any reference submitted by a bidder be found unsatisfactory, King County, at its sole option, may reject that bidder's bid. King County shall be the sole judge in determining a satisfactory/unsatisfactory reference response. Include in your response the contact information for any law enforcement agencies currently utilizing your downlink solution in a manner described within this document. **References must be submitted with bid.**

The successful bidder must be able to document success in the manufacturing and deployment of airborne microwave video downlink systems.

A. The successful bidder shall include up to a two page introduction letter outlining their experience in the following: high-powered aircraft transmitters and antenna systems, multi-antenna strategic diversity downlink receive sites and ancillary equipment, high-bandwidth data interconnection solutions including optical fiber, cable and terrestrial microwave, video management, distribution, FCC licensing, site design and installation, product systems and training and technical support.

B. The successful bidder shall provide references showing proven success of deploying a fully functioning, fixed automatic site selection diversity receive solution of similar size and terrain to King County.

C. The successful bidders system must have incorporated more than four (4) fixed receive site locations and must have provided documentable error free operation for a period of at least six (6) months.

D. Only proven technology, no prototype or experimental solutions shall be bid.

Company Name:	Anaheim Police Department
Company Address:	425 S. Harbor Bl, Anaheim CA 92805
Company Phone:	714-231-6404 / smaddy@anaheim.net
Contact Person:	Scott Maddy
Dates:	2009 to Present

Company Name:	San Diego Police Department
Company Address:	1220 Caminito Centro, San Diego CA 92102
Company Phone:	619-980-1807 / huww@sandiego.gov
Contact Person:	Huw Williams
Dates:	2008 to Present

Company Name:	Tucson Police Department
Company Address:	6702 S. Plumer Avenue, Tucson AZ 85756
Company Phone:	520-971-6264 / brett.lemas@tucsonaz.gov
Contact Person:	Brett Lemas
Dates:	2010 to Present

Company Name:	Portland Police Bureau
Company Address:	449 NE Emerson, Portland OR 97211
Company Phone:	503-793-4384 / josh.goldschmidt@portlandoregon.gov
Contact Person:	Josh Goldschmidt
Dates:	2013 to Present

SECTION 8 Bid Opening Label

Complete the form below (or a reasonable facsimile thereof) and affix to the exterior lower left hand corner of the submission package.

URGENT – SEALED BID ENCLOSED
Do Not Delay – Deliver Immediately

URGENT

King County

King County
Procurement and Contract Services Section
Chinook Building, 3rd FL
CNK-ES-0340
401 Fifth Avenue, Seattle, WA 98104

URGENT

Bid No.: **1283-15-GMK**

Bid Title: **Airborne Video Downlink Surveillance Network Enhancement**

Due Date: October 1, 2015

Vendor: VISLINK, INC.

Vislink, Inc. / Locations & Contact Info

Billerica MA, USA
T: +1 800 490 5700
F: +1 978 671 5800
E: sales@vislink.com
101 Billerica Avenue
North Billerica, MA 01862-1256,
USA

Anaheim CA, USA
T: +1 714 998 2121
E: christopher.gibbons@vialink.com
1158 N. Gilbert Street,
Anaheim, CA 92801-1401
USA

United Kingdom
T: +44 1442 431300
F: +44 1442 431333
E: sales@vislink.com
Vislink House,
27 Maylands Avenue,
Hemel Hempstead,
Hertfordshire,
HP2 7DE
UK

Middle East
T: +971 4457 9219
E: sales@vislink.com
Office #1402,
14th Floor,
Al Thuraya Tower 1,
PO Box 502347,
Dubai Media City
Dubai

Singapore
T: +65 6636 5952
E: sales@vislink.com
8 Burn Road,
Trivex #11-02,
Singapore,
369977

King County
Always at your service

King County Procurement

Solicitation Addendum

King County has issued **Addendum 1** for the following solicitation.

Title:	Airborne Video Downlink Surveillance Network Enhancement
Type:	Goods & Services
ID:	1283-15-GMK
Due Date:	10/06/2015 2:00 PM
	This addendum changes the due date for solicitation submittals.
Link:	Click to view details and documents for solicitation 1283-15-GMK

Questions should be directed to the individual(s) identified in the solicitation documents.

All solicitation documents, addenda, and current document holders list are available at the link above. The County will not email, mail, ship or fax solicitation documents and addenda.

You are receiving this email because our records indicate you have a registered account with King County Procurement and have opted to receive email notifications of addenda for this solicitation.

For assistance using the King County Procurement website contact us by email at procurement.web@kingcounty.gov or by phone at 206-263-9400.

Attachment A - Pricing

Item Number	Est Qty	Description	Unit Price	Extended Price
1	3	Install aircraft high-power 6.425-6.525 GHz RF transmit system as described in sub-sections 6.5-6.7	$30,000.00	$90,000.00
2	4	Install standard and high-definition (SD/HD) digital diversity, two (2) channel, automatic site selecting, fixed downlink receive system as described in sub-sections 6.8-6.12	$96,500.00	$386,000.00
3	1	Install automatic site selection solution/device to compare and seamlessly select the best data stream from the four (4) fixed receive sites and eight (8) associated downlink video receivers, for a complete two (2) channel selecting system as described in sub-section 6.13	$22,000.00	$22,000.00
4	1	Install video distribution server system to stream two (2) channel downlink content to command staff and remote field personnel as described in sub-section 6.14	$17,000.00	$17,000.00
5	4	Complete communications tower structural analysis/engineering as described in sub-section 6.23	$4,500.00	$18,000.00
6	1	Training as described in sub-section 6.24.A	$1,000.00	$1,000.00
7	1	Training as described in sub-section 6.24.B	$1,000.00	$1,000.00
			Total	$535,000.00

ATTACHMENT B

CERTIFICATE OF LOBBYING ACTIVITIES
CONTRACT NO. 1283-15-GMK

The undersigned certifies, to the best of his or her knowledge and belief, that:

No federally appropriated funds have been paid or Will be paid, by or on behalf of the undersigned, to any Person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, or officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal Contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any federal Contract, grant, loan or cooperative agreement.

If any funds other than federally appropriated funds have been paid or Will be paid to any Person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee or a Member of Congress in connection with this federal Contract, grant, loan or cooperative agreement, the undersigned Shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," to the Contract administrator.

The undersigned Shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including sub-Contracts, sub-grants and Contracts under grants, loans and cooperative agreements) and that all recipients of Subcontract awards in excess of $100,000 Shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by § 1352, Title 31, U.S. Code. Any Person who fails to file the required certification Shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Date: September 24, 2015

Company Name: Vislink, Inc.

Authorized Signature: CHRISTOPHER GIBBONS

Printed Name/Title: VP Bus Dev.

UNITED STATES OF AMERICA

The State of Washington

Secretary of State

I, KIM WYMAN, Secretary of State of the State of Washington and custodian of its seal, hereby issue this

CERTIFICATE OF AUTHORITY

to

VISLINK INC

a/an DE Profit Corporation. Charter documents are effective on the date indicated below.

Date: 6/24/2015

UBI Number: 603-519-092

Given under my hand and the Seal of the State of Washington at Olympia, the State Capital

Kim Wyman, Secretary of State

Date Issued: 6/26/2015

VISLINK

dba: MRC; dba: PMR;
dba: Western Technical Svcs
101 Billerica Ave, Bldg 6
North Billerica,MA 01862
Tel: (978) 671-5700 Fax: (978) 671-5903

QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Sold to: King County Sheriff's Office
3511 NE 2nd Street
Attn: Reid Johnson
206-423-9742
Renton, WA
98056
US
Contact: Reid Johnson
Email: reid.johnson@kingcounty.gov
Phone: 206-296-2740
Fax:

Ship To: King County Sheriff's Office
7300 Perimeter Road South
Phone:
Fax:

Payment Terms	Incoterms	Rep	P.O. Number	Ship Via
		Christopher Gibbons		UPS Ground

Item	Qty	Part Number	Description	Unit Price	Ext. Price
100	1.00		***King County Sheriff's Office Aviation Department*** ***Airborne Video Surveillance Downlink Network***		
200	1.00		***Sheriff Aircraft Transmit System Technical Services*** ***Two Complete Aircraft Transmit Systems***		
300	1.00		***The following scope of work will be completed on (2) Sheriff aircraft. Survey aircraft and develop integration plan with A&P mechanic.***		
400	1.00		***Complete aircraft system set-up, lab testing, calibration, configure pre-sets and encryption codes. Provide on-site integration supervision and operation validation.***		

VISLINK

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dba: Western Technical Svcs
101 Billerica Ave, Bldg 6
North Billerica,MA 01862
Tel: (978) 671-5700 Fax: (978) 671-5903

QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
500	**1.00**		***King County Sheriff to contract with A&P mechanic to complete the aircraft integration, including installation of antenna, antenna mount, coaxial RF cable, cockpit controller, associated interconnect control cable and execute "aircraft return to service" log book signoff.***		
600	**1.00**		***As part of this proposal, Vislink will support the integration process with product support and technical services to assure proper performance of equipment.***		
700	1.00		Total technical services charges for field engineering, set-up, calibration & testing of (2) Sheriff aircraft transmit systems as described above, including expenses.	$1,470.00	$1,470.00
800	**1.00**		***Sheriff Aircraft Transmit Sheriff Aircraft Transmit System Equipment*** ***Two Complete Aircraft Transmit Systems***		
900	3.00	HDX-1100C3	HDX-1100 C3-Band (6.425 to 6.525 GHz) High RF output power (8 Watts) HD/SD digital aircraft downlink transmitter equipped with DVB-T/LMS-T CODFM modulation, MPEG-4 (H.264 part 10) HD/SD encoding, two audio inputs (line/mic), DoubleVision™ (transmission of two SD video feeds through a single HDX TX), FadeFighter™ (10 MHz enhanced CODFM modulation), and 9 user configurable presets. Prime power: +10 to +32 VDC; Dimensions: 3.56"W x 12.65"L x 7.62" H; Weight: 9.2 lbs. (4.2 kg). Optional upgrades include: MPEG-2 HD/SD, RangeMaster™ SCM-Q (signal extension), and a cockpit DZUS mounted remote control panel (P/N 907621-6).	$24,000.00	$72,000.00
1,000	3.00	9000372	HDX Low profile mount tray.	$1,150.00	$3,450.00
1,100	3.00	HDX-MPEG2-OPT	HDX1100 MPEG-2 OPTION	$500.00	$1,500.00
1,200	3.00	9001829	HDX Encryption AES 128 bits.	$0.00	$0.00
1,300	3.00	907621-6	HDX-1100 Cockpit DZUS mounted serial remote control panel equipped with the following indicators and controls; Indicators: XMIT, HI/LO/STBY (RF power output), channel, preset, video (presence detected), ENCRYPT (activated), DC OK, Fault; Controls: RF PWR (on and off), brightness, RF PWR (HI/LO/STBY), Preset.	$1,425.00	$4,275.00
1,400	3.00	9003070	HDX-1100 Night vision goggle compatibility upgrade for transmitter cockpit DZUS serial remote control unit.	$935.00	$2,805.00
1,500	3.00	9004782	Omni antenna, 6.425-6.525GHz, 6dbi, RCP, Geneva universal mount, type N-female connector	$1,000.00	$3,000.00
1,600	3.00	NS-SV-	Low loss coaxial cable assembly, including connectors.	$500.00	$1,500.00

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QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
		CONSUMABLES-FP			
1,700	1.00		***Sheriff aircraft equipment subtotal excluding applicable sales tax and freight charges.***		
			Subtotal		**$90,000.00**
1,900	1.00		***Fixed Strategic Receive System Integration Services*** ***Four Complete 2-Channel IP Diversity Receive Sites***		
2,000	1.00		***Vislink will complete initial survey of four potential receive site locations in an effort to gather information necessary to develop integration SOW and to determine best possible location for antenna systems.***		
2,100	1.00		***Vislink will attend meetings with customer, and county personnel as necessary to develop SOW and integration plan.***		
2,200	1.00		***Vislink will complete conceptual design, system engineering, final SOW, continued customer/end user meetings, project planning, program management and administrative efforts in support of all Vislink provided equipment and services.***		
2,300	1.00		***Vislink will complete bench testing, configuration, deployment, integration, final turn-up, alignment, testing, customer acceptance and as-built drawings for new 6.5 GHz digital IP diversity video downlink system.***		
2,400	1.00		***Vislink will provide as part of this proposal a complete 6.5 GHz diversity receive site as described further in the equipment list below. This system will be capable of receiving either SD or HD digital video images simultaneously from two separate aircraft, either a helicopter or fixed-wing aircraft. Output of the proposed digital receivers will be IP only. Vislink complete connections to County provided optical fiber transceivers and connect to an existing optical fiber system, which will be used to transport the IP video content to the RCECC location.***		
2,500	1.00		***Vislink assumes that the proposed diversity receive system and associated antennas will be located at an existing communications facility, so no city or county permits, or fees, are included in this proposal. It is also assumed that this facility will have an existing suitable self-support tower or building structure, indoor equipment room with existing equipment racks/cabinets and appropriate electrical power for use with this project. Vislink will provide all necessary antenna mounts, interconnect cables and associated installation materials required to complete this installation.***		

VISLINK

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QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
2,600	4.00	NS-SV-01-DAY-FP	Total technical services charges for field engineering, installation, set-up, calibration & testing of (4) Sheriff fixed receive systems as described above, including expenses.	$11,250.00	$45,000.00
2,700	**1.00**		***Vislink will provide, as part of this proposal, complete structural engineering of each of the four towers, if required, to assure tower is not overloaded by the installation of the new antenna systems. In the event that the structural engineering identifies that the tower is already in an overload situation prior to the commencement of this project, it will be the responsibility of the County to locate another/suitable tower, or make modifications to the current structure to alllow for the mounting of the new equipment.***		
2,800	4.00	NS-SV-01-DAY-FP	Total technical services charges for structural engineering and final report on (4) existing self-support tower structures as described above, including expenses.	$4,500.00	$18,000.00
			Subtotal		**$63,000.00**
3,000	**1.00**		***Fixed Strategic Receive System Equipment*** ***Four Complete IP Diversity Receive Sites***		
3,100	8.00	HDR5000-1	Kamelyon™ HDR-5000-1, six input MaxRC digital diversity receiver, standard and high-definition (SD/HD), multiple RF band support, outputs (1) ASI & (1) IP Streaming (UDP or RTP wFEC), multiple decryption algorithms, front panel receiver control, multiple user selectable presets, WEB browser user interface, 2RU 19" rack mounting, 115/230VAC.	$18,000.00	$144,000.00
3,200	4.00	NS-SV-CONSUMABLES-FP	IF Splitter box, power passing, (6) input, (4) output each, for a total of (24) outputs, allows for the splitting of the tower mounted BDC units to (3) individual receivers, plus (1) test port. This device will alloow for the connection of up to (3) downlink receivers like the HDR-5000-3 model as described above.	$1,100.00	$4,400.00
3,300	20.00	9010955	Sector antenna, 90 degree, 13 dBi gain, 6.4-7.125 GHz, vertical polarity, 16 degree vertical beamwidth, 2.5-4.5" OD mounting, 25" length.	$1,000.00	$20,000.00
3,400	4.00	9004782	Omni antenna, 6.425-6.525GHz, 6dbi, RCP, Geneva universal mount, type N-female connector	$1,000.00	$4,000.00
3,500	4.00		Custom antenna mount to support (1) omni directional antenna with uplook capability and (5) high-gain directional sector type antennas. Mount will be attached to a building or self-support communications tower.	$1,500.00	$6,000.00

VISLINK

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QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
3,600	24.00	L3025-6469	L3025-6469, Link block down-converter, input frequency 6.425-6.960 GHz, output frequency 500 MHz band, switchable gain.	$1,800.00	$43,200.00
3,700	12.00	9010859	Vislink NEMA 4X BDC Enclosure, cast aluminum box, stainless steel captivated cover screws, ground screw points, tongue-and-groove o-ring sealed, internal plated steel component mount plate with gray painted finish. Supports (2) Vislink L3025 BDC units and (2) RF filter assemblies that are purchased separately. Includes internal RF jumpers to interconnect between BDC units, filter assemblies and bulkhead input/output connections. External dimensions are L14.20"xW6.30"xD3.50", mount-hole pattern is 13.39"x4.33" and holes are outside internal gasketed area. Unit can be mounted using 0.25x20 hardware. RF input connections are 50 Ohm type-N female and IF connections are 75 Ohm type-TNC female. Unit includes assembly, connection of internal components and full testing.	$2,000.00	$24,000.00
3,800	24.00	906973-1	RF filter, BPF,6.425-7.125 GHz, sma female connectors	$500.00	$12,000.00
3,900	24.00		LMR-400 coaxial cable jumper, 5', N-male connectors	$100.00	$2,400.00
4,000	4.00		Coax cable kit support cushions/hangers, for RF cable kit length up to 5'.	$75.00	$300.00
4,100	4.00		Coax IF cable kit, 300', multiple coax runs, inside protective poly conduit	$2,250.00	$9,000.00
4,200	4.00		Coax cable kit support cushions/hangers, for IF cable kit length up to 300'.	$500.00	$2,000.00
4,300	4.00		Building entrance ports and weather boots.	$200.00	$800.00
4,400	24.00	9003948	PolyPhaser, (RF), 50 Ohm, DC-7 GHz, straight gastube, 90W@30MHz, 9W@3GHz, 50VdcMax, L2.22"xW0.86", fully weatherized, N-Female protected side, N-female surge side, bulkhead mount.	$125.00	$3,000.00
4,500	24.00	9006217	PolyPhaser, (IF), 75 Ohm, 300MHZ-2.5GHz, 50W, 24 vdc, 3.3"x2.2", 1.0 dB insertion loss, fully weatherized, flange mount, F-female protected side, F-female surge side.	$125.00	$3,000.00
4,600	4.00		Grounding supplies, antenna mounts, BDC NEMA enclosures, RF & IF cable assemblies & PolyPhaser units.	$225.00	$900.00
4,700	4.00		Installation supplies; weatherproof materials, conduits, hardware & misc supplies, per site.	$300.00	$1,200.00

VISLINK

dba: MRC; dba: PMR;
dba: Western Technical Svcs
101 Billerica Ave, Bldg 6
North Billerica,MA 01862
Tel: (978) 671-5700 Fax: (978) 671-5903

QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
4,800	8.00	9013648	Kamelyon™ HDD-1100 modular video decoder, standard and high-definition, (SD/HD), MPEG-2 or H.264, INPUTS: ASI or IP-UDP/RTP, OUTPUTS: HD-SDI, SD-SDI, HDMI, ASI, IP-UDP/RTP, MPEG/IP FEC Output License and full-time composite video. Audio outputs; two standard, four available. 2RU, 1.72"H x 17.2"W x 14.6"D, 115/230VAC.	$4,500.00	$36,000.00
4,900	4.00	9013744	Video monitors, HD-SDI, side-by-side configured, 19" rack mounted with looping input/output capability.	$1,250.00	$5,000.00
5,000	4.00	NS-SV-CONSUMABLES-FP	Data network cables & supplies.	$450.00	$1,800.00
5,100	**1.00**		***Sheriff fixed receive sites equipment subtotal excluding applicable sales tax and freight charges.***		
			Subtotal		**$323,000.00**
5,300	**1.00**		***King Sheriff RCECC HQ Location*** ***IP Diversity Switch & Video Media Server*** ***Integration Services***		
5,400	**1.00**		***Vislink will provide, configure and install (1) IP Diversity switch at the RCECC location only and complete testing.***		
5,500	**1.00**		***Vislink will provide, configure and install (1) video media server (VMS), inside the data center of the King County Sheriff RCECC, complete configuration & testing.***		
5,600	1.00		Total technical services charges for IP Diversity Switch and VMS Server System installation and testing as described above, including expenses.	$2,500.00	$2,500.00
5,700	**1.00**		***King Sheriff RCECC HQ Location*** ***IP Diversity Switch & Video Media Server Equipment***		
5,800	1.00	TSS-1100	TSS-1100, (1) switch, base unit, IP diversity transport stream switch, 1RU, includes; (1) switch, (4) inputs, forward error correction (FEC) on IP input/output, dual redundant power supplies, 110V/220VAC and US power cord. (For additional input capability, add on options SSWX2, SSWX3 or SSWX4 as required).	$11,750.00	$11,750.00
5,900	2.00	9013648	Kamelyon™ HDD-1100 modular video decoder, standard and high-definition, (SD/HD), MPEG-2 or H.264, INPUTS: ASI or IP-UDP/RTP, OUTPUTS: HD-SDI, SD-SDI, HDMI, ASI, IP-UDP/RTP, MPEG/IP FEC Output License and full-time composite video. Audio outputs; two standard, four available. 2RU, 1.72"H x 17.2"W x 14.6"D, 115/230VAC.	$4,500.00	$9,000.00

VISLINK

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North Billerica,MA 01862
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QUOTE

Date	Quote #
Sep-24-2015	SQ_013788

Item	Qty	Part Number	Description	Unit Price	Ext. Price
6,000	1.00	9013744	Video monitors, HD-SDI, side-by-side configured, 19" rack mounted with looping input/output capability.	$1,250.00	$1,250.00
6,100	1.00	VMS-1100	VMS-1100 Video Media Playout Server (SYSTEM - Hardware & Software) delivers up to 500 Mbps of live video or on-demand video streaming per-server. Two unique video streams (standard) are transcoded into multiple reduced bitrate formats and key-frame aligned for adaptive bitrate delivery to various edge devices. Standard server hardware includes:Standard server hardware includes: i7-3770K Quad Core Processor, 16GB DDR3 RAM, 1 TB HDD, 1 GB NIC. RAID5 Option Available (9008757).	$11,350.00	$11,350.00
6,200	1.00	VMS-RM-MX-KYBD	VMS dual rail 1 RU rack mount console including an integrated 17" LCD monitor panel, full 88-key keyboard, and touch pad. This unit allows the screen to remain open, while the keyboard portion is retracted into the rack. Includes cable kit for interface connection to a PS/2 or USB equipped computer.	$1,200.00	$1,200.00
6,300	**1.00**		***Sheriff RCECC IP Diversity Switch and VMS Media Server equipment subtotal excluding applicable sales tax and freight charges.***		
			Subtotal		**$37,050.00**
6,500	1.00		Vislink "On-Site" Maintenance Support - On-site maintenance & technical support for a period of (5) years from date of purchase order. This includes (1) engineer/technician, including expenses to troubleshoot and repair Vislink products. This does not include tower climbing that will be performed by Sheriff contractor.	$20,000.00	$20,000.00
6,600	1.00	FREIGHT	FREIGHT	$1,950.00	$1,950.00

This quotation was prepared by:
Christopher Gibbons
VP & Business Development

Phone: 714-412-1884 Fax: 714-998-7808
E-Mail: christopher.gibbons@vislink.com

SubTotal	$535,000.00
Total	**$535,000.00**
USD	**USD**

Terms, Conditions, Insurance and Banking

TERMS & CONDITIONS - Unless otherwise noted, all other Standard Vislink Terms and Conditions of Sale apply. This quotation is valid for 90 days after which either a confirmation of prices or a new quotation will be necessary. Prices are quoted in U.S. Dollars ($), EX-WORKS, FACTORY. Prices quoted include a two-year in-plant warranty on all Vislink manufactured hardware equipment. Unless otherwise agreed: Quoted freight charges are subject to change upon shipment of goods and may differ from estimates.
Seller's products and related technical data and services may be subject to export control restrictions under the U.S. State Department's International Traffic in Arms Regulations (ITAR) and/or the U.S. Commerce Department's Export Administration Regulations (EAR). Buyer shall not export or re-export Products (including after modification or incorporation of Products into another product), except in compliance with all applicable export control regulations.

Notwithstanding any other provision of this Contract, Seller's obligations to deliver Products, technical data and services under this contract are expressly contingent upon receipt of all required export licenses and other government authorizations. Buyer agrees to provide Seller with any information reasonably requested by Seller in connection with its efforts to obtain any such export licenses or otherwise comply with applicable export control and other trade compliance laws and regulations.

In the event that Buyer intends to export, re-export, resell or otherwise retransfer Seller's Products, technical data or services (including after modification or incorporation of Products by Buyer into another product), it shall be the sole responsibility of Buyer to comply with all applicable export control and trade compliance regulations and to obtain all necessary government authorizations in connection with such transactions.

AVAILABILITY - Normal availability for MRC products are 16 WEEKS after receipt of frequencies and agreed payment terms. Availability for system integration orders subject to OEM lead times.

STANDARD PAYMENT TERMS - Unless otherwise agreed: Domestic orders to the US- A 50% down payment with your order, 50% net 30 upon credit approval. International orders - 50% down payment with Order and 50% due on Shipment or 100% by irrevocable letter of credit.

Accepted by:

Signature: _____

Title: _____

PO Number: _____ Date: _____

CUSTOMER PROVIDED

VISLINK PROVIDED

Recommended or similar
RF CABLE
PICS22089
9.63dB attention/100 ft

HD/SD-SDI VIDEO FROM CAMERA

HD/SD-SDI

BNC FEMALE SDI IN

RF OUT N FEMALE

RF CABLE

SPST
TOGGLE SWITCH
"MICROWAVE POWER"

+28VDC AVIONICS BUS

10AMP CK BRK

2X 20AWG

PTO CONNECTOR

MS3126F-16-26S

MS3112E-16-26P

+28VDC @ 150mA

+28VDC @ 6.1A

VISLINK HDX-1100C3
TRANSMITTER
(6.5GHz Band)

RF CABLE

VISLINK COCKPIT
TRANSMITTER CONTROL PANEL
P/N: 907621-6

FEMALE DB9

COCKPIT

1	N/C
2	SERIAL IN
3	SERIAL OUT
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

NULL MODEM
SERIAL CABLE

BELDEN 9444 OR SIMILAR
3X 22AWG

A	+VIN
B	+VIN
C	SPARE
D	AUDIO 1 IN
E	AUDIO 1 GND
F	AUDIO 2 GND
G	AUDIO 2 IN
H	SPARE
J	WAYSIDE SERIAL IN
K	WAYSIDE SERIAL GND
L	SPARE
M	CONTROL SERIAL IN
N	CONTROL SERIAL GND
P	CONTROL SERIAL OUT
R	SPARE
S	SPARE
T	RESERVED
U	RESERVED
V	RESERVED
W	RESERVED
X	RESERVED
Y	RESERVED
Z	RESERVED
a	RESERVED
b	-VIN
c	-VIN

ARINC MOUNTING TRAY

ANTENNA

RCP OMNI

Omni Antenna
6dBi Gain
6.5 GHz
RCP

VISLINK

King County Sheriff Aviation Unit

Bell 206 and Bell 407 Video Downlink Solution
Aircraft Wiring Diagram

Dwg by Ray Shane	SIZE	FSCM NO	DWG NO ELECTRIC INTERCONNECT	REV C
Systems Engineering			SHEET 1	

Receive System

Receive Site
(Video Decoders)

Splitter Outputs

RX-1
RX-2
RX- 3
(Future)
TP

VISLINK IF SPLITTER

VISLINK RX-1 HDR-5000

VISLINK RX-2 HDR-5000

VISLINK RX-3 (FUTURE) HDR-5000

ASI

ASI

MGMT

MGMT

MGMT

MGMT

VISLINK D-1 HDD-1100

VISLINK D-2 HDD-1100

IP

IP

HD-SDI

HD-SDI

V-1 V-2

Dual Monitor(Rack Mounted)

CFE Network Switch
Access Point

VISLINK	King County Sheriff Aviation Unit				
	Two Channel Diversity Receiver Solution (x4) Sites/Rack Equipment				
Dwg by Ray Shane	SIZE	FSCM NO	DWG NO RF Receive Splitter Solution	REV C	
Systems Engineering			SHEET 4		

Voted Output
Video Decoders

Voted Output
Video Monitors

Receiver Site 1

Receiver Site 2

Receiver Site 3

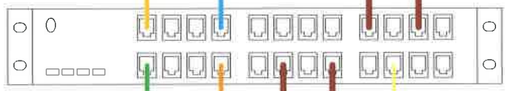
Receiver Site 4

HD-SDI

Voted Output of Receiver 1 and 2

HD-SDI

Dual Monitor
(Rack Mounted)

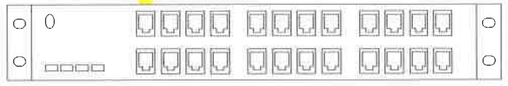


CFE Network Switch
Access Point

4 Input Site Voting Switch

Voted Output

Client Device Network



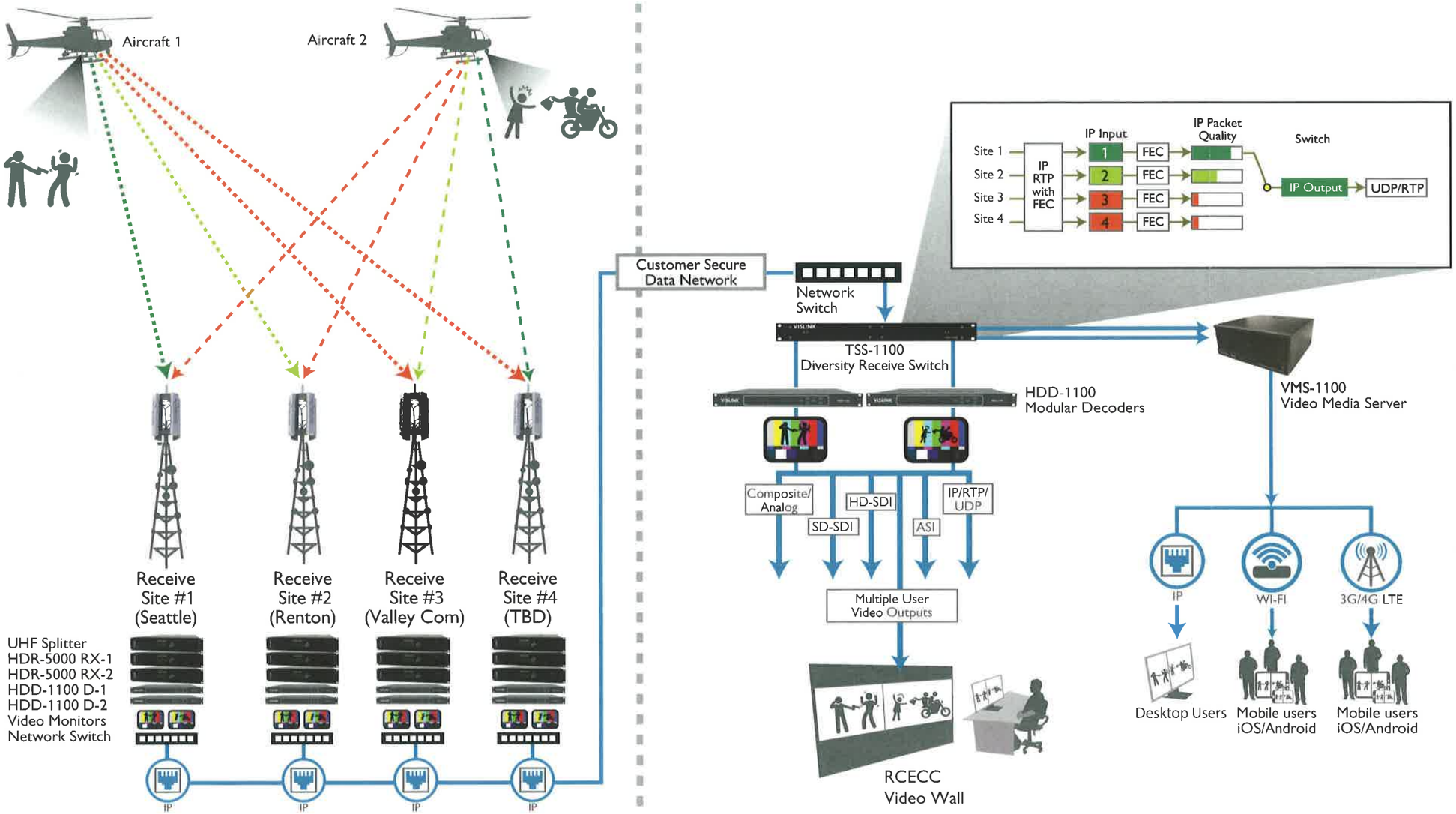
Ch 1 Stream
Ch 2 Stream

TWO Channel
Video Media Server
IP Distribution Solution

VISLINK	King County Sheriff Aviation Unit			
	IP Diversity Voting Solution Local & IP Video Distribution System			
Dwg by Ray Shane	SIZE	FSCM NO	DWG NO IP Network System Solution	REV C
Systems Engineering			SHEET 5	

King County Sheriff's Office (KCSO)
Airborne Video Downlink Receive Network
IP Diversity Solution

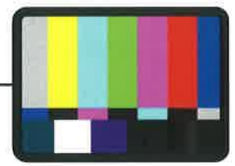
VISLINK



HD-SDI VIDEO

HD-SDI VIDEO

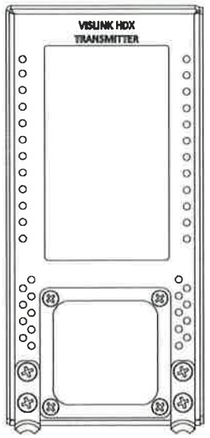
HD GIMBLE (CFE)



ONBOARD MONITOR (CFE)

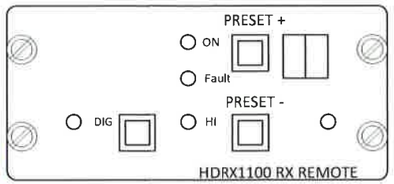
RF SIGNAL

Omni Antenna 6dBi Gain 6.5 GHz RCP



HDX-1100 TRANSMITTER (6.5 GHz)

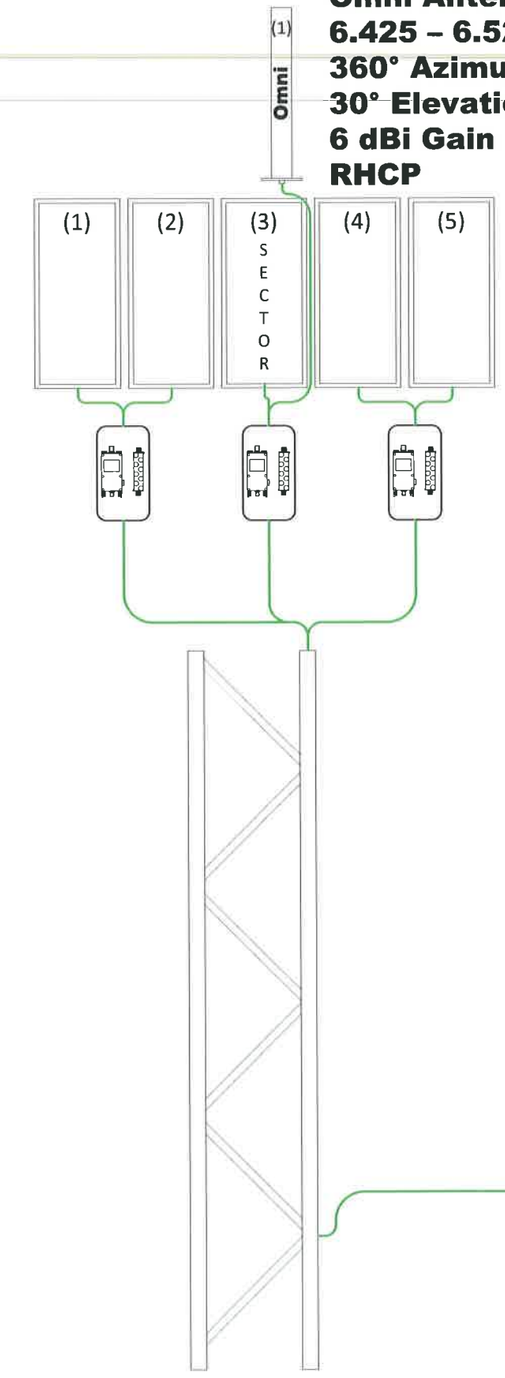
RS-232



REMOTE CONTROL PANEL

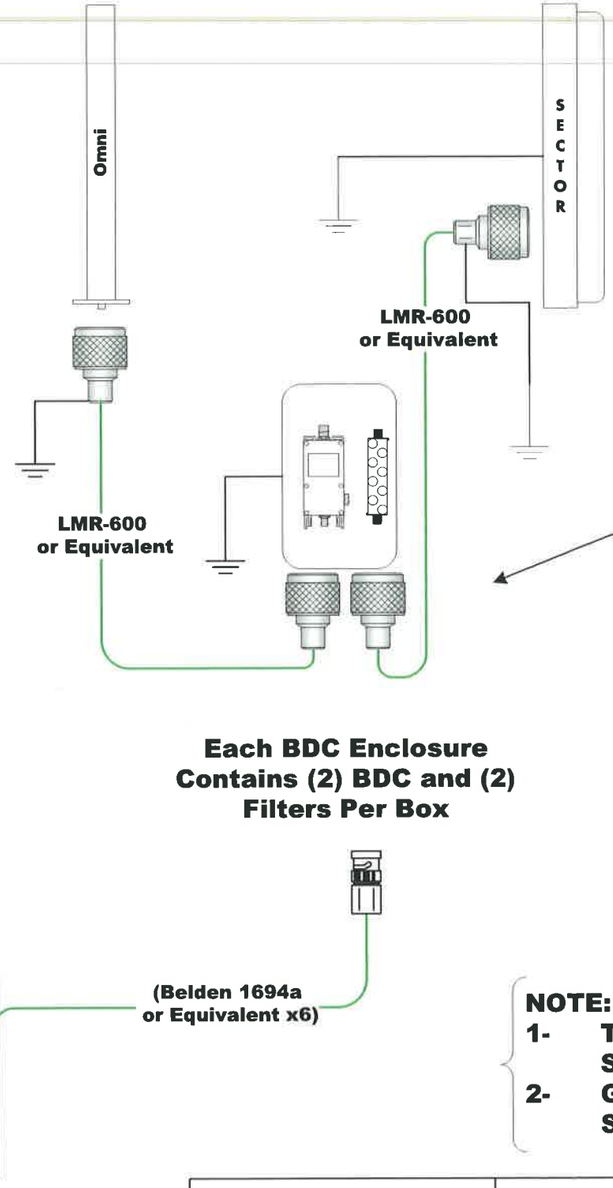
VISLINK	King County Sheriff Aviation Unit			
	Bell 206 and Bell 407 Video Downlink Solution Aircraft Equipment Diagram			
Dwg by Ray Shane	SIZE	FSCM NO	DWG NO Onboard System	REV C
Systems Engineering			SHEET 2	

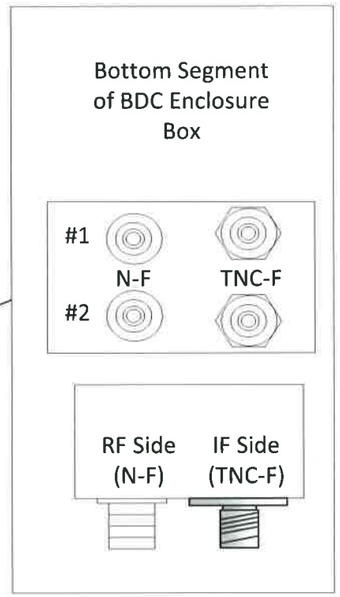
Omni Antenna
6.425 – 6.525 GHz
360° Azimuth
30° Elevation
6 dBi Gain
RHCP



Sector Panel Antenna (x5)
6.425 – 6.525 GHz
90° Azimuth
16° Elevation
13 dBi Gain
Vertical Polarity

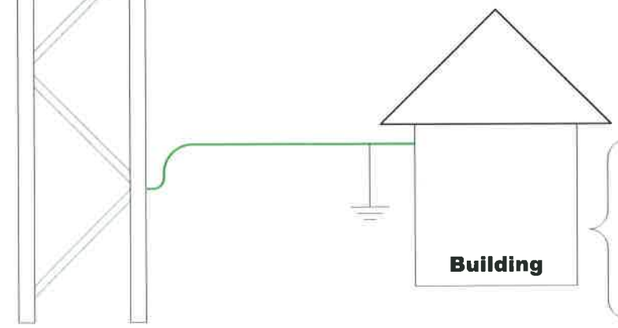
BDC Enclosure Box (x3)





Each BDC Enclosure Contains (2) BDC and (2) Filters Per Box

(Belden 1694a or Equivalent x6)



NOTE:
Transmission line must be ground before entering building

NOTE:
1- **This design will apply at all (4) Separate receive sites.**
2- **Grounding shall meet Motorola R56 Standards.**

VISLINK

King County Sheriff Aviation Unit

Two Channel Diversity Receiver Solution
(x4) Sites/Tower Equipment

Dwg by Ray Shane	SIZE	FSCM NO	DWG NO RF Receive Site	REV C
Systems Engineering			SHEET 3	

VISLINK

End of ITB Response
1283-15-GMK

KING COUNTY SHERIFF'S OFFICE
AIRBORNE VIDEO DOWNLINK
SURVEILLANCE NETWORK ENHANCEMENT

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Vislink Communication Systems