



Call for Sealed Bids

Christian Camp Rd. Radio Site

Proposals must be received no later than 3:00 p.m. on Friday, May 26th, 2023

**Skagit 911
2911 East College Way, Suite A
Mount Vernon, WA, 98273**

Call for Sealed Bids

Christian Camp Road Radio Site

Major Work to be performed

Installation of VHF Antennas, Installation of UHF Antennas, Installation of GPS Antenna, Installation of Ice Bridge to Cable Ladder, 10' x 20' Shelter Foundation, 4 x10 generator foundation, site grounding, underground conduits for power, fiber Optic Cable, and generator connections, set shelter and anchors, set generator and anchors.

Sealed bids will be received until 3:00 p.m. Pacific Daylight Savings Time, Friday, May 26th , 2023 at the Skagit 911 Administrative Office located at 2911 East College Way, Suite A, Mount Vernon, WA 98273, at which time all bids will be publicly opened and read aloud. Any bid received after that time will be returned unopened. Bids may not be electronically submitted.

The bid container must be clearly marked "Christian Camp Rd Radio Site".

This Request for sealed bids and related specifications, plans, and pre-proposal addenda are on file and may be obtained at Skagit 911 at the above address or electronically on Skagit 911's website: www.skagit911.us.

Prospective companies (hereinafter referred to as Vendor, Contractor, Bidder, Proposer) shall examine the information contained herein and shall comply and conform strictly to the conditions and instructions set forth in this document. **There will be not pre-bid conference. Site walks may be scheduled as needed.** Questions regarding this proposal should be directed to Mike Voss, Technical Services Manager by calling 360-428-3206 or via email at vossmi@skagit911.us. Inquiries and replies will be sent out to all known proposers. To be placed on the proposers list, please email Mike Voss at vossmi@skagit911.us. With the subject line "Christian Camp Rd Radio Site".

Bidders should register with Mike Voss to obtain the latest information including any pre-bid addenda.

Skagit 911 reserves the right to reject any and all bids in whole or in part or to waive any informality in bidding if it is determined to be in the best interest of Skagit 911. Skagit 911 is not obligated in any way to award a contract under this request for proposals.

Proposals may be held by Skagit 911 for a period not to exceed one-hundred twenty days (120) days from the date of the opening of bids for the purpose of reviewing the proposals and investigating the qualifications of the proposer prior to awarding the contract.

1. Instructions to Bidders

- 1.1. Each proposal must be submitted on the prescribed forms and all blank spaces for prices must be filled in. Prices must be filled-in in ink or typewritten on the provided document.
- 1.2. Proposals may be withdrawn personally, by written request, or email, sent by the proposer in time for delivery in the normal course of business prior to the time fixed for opening the proposals. Negligence on the part of the proposer in preparing their proposal confers no right of withdrawal or modification of their proposal after such proposal has been opened.
- 1.3. Conditional proposals will not be accepted.
- 1.4. Should a proposer find any omissions, discrepancies or errors in the specifications or other Proposal Documents or should he be in doubt as to the meaning of the Specifications or other Proposal Documents, they should immediately notify Skagit 911 who may correct, amend or clarify such documents by a written interpretation or addendum delivered to all registered bidders via email. No oral interpretations shall be made to any proposer and no oral statement of Skagit 911 shall be effective to modify any of the provisions of the Proposal Documents.
- 1.5. The proposal will be awarded to the responsible/responsive proposer submitting the proposal that results in the lowest net cost and best value Skagit 911 while complying with all conditions set forth in these Request for Proposal Documents. The completion date and other factors may be considered in the awarding of the contract and may result in an award to a vendor other than the proposer quoting the lowest price.
- 1.6. Skagit 911 ensures full compliance with Title VI of the Civil Rights Act of 1964 by prohibiting discrimination against any person on the basis of race, color, national origin or sex in the provision of benefits and services resulting from the federally assisted programs and activities.
- 1.7. A nonresponsive proposal shall be: 1) a proposal response that that is missing any or all of the proposal documents called for in this document, 2) a proposal response that takes complete exception to the request for proposal specifications, or 3) a proposal response that does not comply with any mandatory requirement spelled out in the request for proposal specifications.

Documents required to be submitted with the proposal include:

- 1.7.1. General Contractor Resume
- 1.7.2. R56 training/certification
- 1.7.3. Cable/Antenna Analyzer training

- 1.7.4. Competent Climber/Rescuer 4th Edition Certificates
- 1.7.5. Proposal Form.
- 1.7.6. Bid Bond
- 1.7.7. Company Profile Form and References (3 references required)
- 1.7.8. Non-Collusion Affidavit
- 1.7.9. Proof of Insurance
- 1.7.10. Federal Debarment Form (Project may funded by a HLS grant).
- 1.7.11. Proposal Authorization Form
- 1.7.12. Notation of any exceptions taken to the Skagit 911 proposal specifications and/or Standard Purchasing Contract.

2. General Requirements

- 2.1. Pricing Maintained - Pricing offered under this proposal shall be good for one hundred eighty days (180) days from the date the contract is signed.
- 2.2. Exceptions - Vendors taking exceptions to the specifications shall state the exceptions in detail. Proposals containing a significant number of exceptions may be declared non-responsive.
- 2.3. New Materials – All material and components furnished by the contractor shall be new. Used or refurbished components or materials shall not be used unless they have been specifically allowed for in the specifications.
- 2.4. Form of Proposal - Proposals must be submitted on the proposal form provided in this document. Other pages may be attached by the vendor should it be necessary to clarify their proposal.
- 2.5. Contractors (Determining Lowest Responsible Proposer)- Contractors must be registered contractors at time of proposal, be bonded, have a current UBI number, have industrial insurance coverage as verified by WA L&I, have an Employment Security Department number, have a WA state Excise Tax Registration Number, and must not be disqualified from bidding per the Debarred Contractors list.
- 2.6. Prevailing Wage - State prevailing wage rates per Washington State Department of Labor and Industries are required. For current rates in Skagit County use the following link: <https://fortress.wa.gov/lni/wagelookup/prvWagelookup.aspx> and use the proposal close date as the effective date.

- 2.7. Preparation Costs – Skagit 911 shall not be liable for any pre-contract costs incurred by interested contractors participating in this request for proposal process.
- 2.8. Permits, Licenses, and Certificates - The contractor, at their sole expense, shall obtain and maintain during the term of this Contract, all permits, licenses, and certificates required in connection with the performance of services under this Contract. Except Building Permits.
- 2.9. Bid Bond - All proposals shall be accompanied by a bid proposal deposit in the form of a certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful proposer fail to enter into such contract and furnish a satisfactory performance bond within the time stated in the specifications, the proposal deposit shall be forfeited to Skagit 911.
- 2.10. Performance Bond – A Performance bond is required with this contract.
- 2.11. Retainage – 5% retainage provision is required and included in this contract.
- 2.12. Assignment of Contract - The Proposer shall not assign this contract nor any part thereof, nor any moneys due or to become due there under, without prior written approval of Skagit 911.
- 2.13. Project Timeline – To be determined
- 2.14. Recycling and Disposal of Waste Materials – All materials considered as waste from this project are to be properly recycled. Materials that are not recyclable shall be disposed in a proper and legal manner.
- 2.15. Applicable Standards
- 2.15.1. Motorola R56 – Standards and Guidelines for Communications Sites.
 - 2.15.2. ANSI ESD S20.20-2007 – Protection of Electrical and Electronic Part, assemblies and Equipment.
 - 2.15.3. NFPA 1221 - Standard for the Installation, Maintenance, and Use of Emergency Services Communications
 - 2.15.4. International Building Code
 - 2.15.5. International Fire Code
 - 2.15.6. International Mechanical Code

3. Contractor Requirements

3.1. Contractor Requirements

3.1.1. Contractors submitting proposals on this project must have at least 10 years of experience in public safety radio site construction, tower work, and microwave antenna installation and alignment. Contractors must include a company resume describing their work experience in these areas.

3.1.2. Contractor shall provide proof that they have tools approved by Andrew/Commscope for preparing the cable for connectors and grounding. Contractor shall provide proof that they have tools approved by RFS for preparing elliptical waveguide for connectors and grounding.

3.1.3. Contractors shall provide proof of certification for Motorola R56 training.

3.1.4. Contractors shall provide evidence of Competent Climber/Rescuer 4th Edition training within the last 24 months.

3.1.5. Contractors shall submit proof of cable and antenna analyzer training.

3.1.6. Contractor must provide proof they are approved to work on Parallel Infrastructure/Harmoni Towers radios sites and towers.

3.2. Security Requirements – Skagit 911's communication system is a secure network. Once the contract is awarded all employees of the General Contractor and Sub-Contractors assigned to work on this project may be subject to a criminal history background check before being allowed to work on this project. If required, Contractors and Sub-Contractors must supply the legal name and date of birth for each employee that will be working on this project so that a criminal history background check can be completed. The contractor will be notified of the status of the submitted employees prior to work commencing.

3.3. Cleaning – After completing all work the contractor shall make sure that all debris and garbage generated by the project is removed from the site and the inside of the shelter and properly disposed of or recycled.

4. Christian Camp Rd – 250' Self-Support Lattice Tower

4.1. VHF Antennas – Install 2 Sinclair SD-212 VHF antennas provided by Skagit 911. Contractor will need to provide mounts to attach them to the tower mounts. The contractor will need to provide 3' stand-off tower mounts and Stiff-arms. Contractor will need to provide sufficient length of Andrew/Commscope AVA5-50 7/8" Coax to do the job. Contractor will need to provide parts necessary to attach the cable to the waveguide ladder on the tower and the ice bridge to the shelter. Contractor will need to provide entry boot cushions for the entry port. Contractor will need to provide all grounding kits and polyphasers. Antennas to be installed on N leg of the tower. 1 Antenna mount centerline at 246 feet, 1 antenna mount centerline at 196'. Antennas to be –aimed at 66 degrees from true north – both antennas. Mounts to be PSA-3 with 1 Stiff arm.

4.2. UHF Antennas – Install 2 Sinclair SC329-HF2LDF UHF antennas provided by Skagit 911. Contractor will need to provide mounts to attach them to the tower mounts. The contractor will need to provide 3' stand-off tower mounts and Stiff-arms. Contractor will need to provide sufficient length of Andrew/Commscope AVA5-50 7/8" Coax to do the job. Contractor will need to provide parts necessary to attach the cable to the waveguide ladder on the tower and the ice bridge to the shelter. Contractor will need to provide entry boot cushions for the entry port. Contractor will need to provide all grounding kits and polyphasers. Antennas to be installed on E leg of the tower. 1 Antenna mount centerline at 246 feet, 1 antenna mount centerline at 196'. Mounts to be PSA-3 with 1 Stiff arm.

4.3. Cable labeling – Cables shall be labeled with metal tags

4.3.1. Inside the shelter – Tag shall indicate model of antenna, installed elevation

4.3.2. On the tower – Tag shall indicate owner "Skagit 911" and phone number – 360-428-3211

4.4. GPS Antenna – Mount Supplied GPS antenna on ice bridge leg. Supply needed LMR 400 cable to do the job. Contractor will need to provide entry boot cushions. Contractor will need to provide all grounding kits. Skagit 911 will provide polyphaser and GPS antenna.

4.5. Coax Sweeps – All 7/8" coax shall be septs with an Anristsu Sitemaster S361E or Deviser 7100L cable and antenna analyzer. The following sweeps shall be

provided 1) Cable installed 50ohm termination, 2) Cable installed with jumper 50ohm termination, 3) Cable installed, jumper installed, antenna attached. Documentation of the sweeps must be provided. Sweep Range for UHF is 445 to 480. VHF sweep range is 138 to 174.

- 4.6. Generator Foundation - The pad for the generator shall be a minimum of 8" thick. The pad shall be reinforced with #4 rebar placed in a crisscrossed fashion 12" O.C. The Pad Shall measure 4' x 10'. A piping hole shall be provided for electrical conduit access to the generator. The hole shall be formed so as to enable future addition or subtraction of conduits without the need to jack hammer a hole in the slab. Concrete shall be a minimum 4000psi compressive strength at 28 days. Concrete shall be place using mechanical vibration. Foundation Plan attached.
- 4.7. Shelter Foundation – Foundation shall be a thickened slab type foundation. The slab shall measure 10' x 20 (contractor shall verify dimensions). The foundation walls shall extend below the frost line at least 18". Walls shall be at least 12" thick and contain 2 – number 4 rebar at the top, 2 - number 4 rebar at the bottom, and number 3 ties spaced no more than 24" O.C. The slab portion shall be a minimum of 6 inches thick with a number 4 rebar mat with rebar placed in a crisscrossed fashion 12" O.C. Edges shall be finished at a 45 degree angle with a 1 inch face. Concrete shall be a minimum 4000psi compressive strength at 28 days. Concrete shall be placed using mechanical vibration. Foundation plan attached.
- 4.8. Shelter Stoop - Install a concrete stoop: Minimum 48" X 48" X 6" stoop. Stoop shall be sloped to drain water away from the shelter. Galvanized stairs may be provided with approval of Skagit 911.
- 4.9. Shelter Attachment to Foundation – Shelter attachment to the foundation will be with the supplied steel plates. Plates shall be attached to the foundation per manufacturer's plans.
- 4.10. Generator Attachment to Foundation – Per manufacturer's plans for seismic tie down – see plans. Contractor to supply anchor bolts.
- 4.11. Grounding - Grounding system for the shelter, generator, and Ice Bridge shall meet Motorola R56 2017 edition standards.
- 4.12. Ice Bridge - Installation of approximately 10' feet of 12" deformed metal ice bridge from the tower waveguide ladder to the entry port on the shelter.

4.13. Underground Piping –

4.13.1. Power:

4.13.1.1. Install 2" conduit from shelter to H-Frame.

4.13.2. Generator

4.13.2.1. Install 1 2" conduit from shelter to generator

4.13.2.2. Install 1 1" conduit from shelter to generator – 110V power

4.13.2.3. Install 1 1" conduit from shelter to generator – start circuit

4.13.2.4. Install 1 conduit from shelter to generator – monitoring circuit

5. Shelter and Generator Pick-Up and Delivery to Site

5.1. The Contractor is responsible for setting up the pick-up and delivery of the shelter and generator to the site.

5.2. The contractor is responsible for scheduling crane services for the pick-up and delivery of the shelter and generator to the site.

6. Electrical and Grounding Systems

6.1. Contractor Qualifications and Experience

6.1.1. The Electrical contractor shall have demonstrated experience with installing electrical and grounding systems in 911 Centers, Emergency Communications Centers, Communications Sites, or similar facilities where sensitive electronic equipment is in use.

6.1.2. The electrical contractor must be familiar with the 2017 edition of Motorola R56. The electrical sub-contractor must provide documentation of experience with the application of Motorola R56 standards. R56 certification of personnel is preferred.

6.1.3. The electrical contractor shall have a copy of the 2017 edition of Motorola R56 on site for reference by the electricians.

6.1.4. Documented experience of the electrical contractors must be provided with the bid documents.

7. Storm Water Management

7.1. Skagit County is subject to a National Pollutant Discharge Elimination System (NPDES) permit that can result in significant penalties upon the County and property owners if polluted water is discharged to ditches or streams. Storm water management is governed by Skagit County Code.

7.2. Contractor will use Best Management Practices to install and maintain effective erosion and sediment controls. Such practices include but are not limited to: silt fences, check dams, sediment traps, and covering excavated soils with plastic tarps.

7.3. Contractor must comply with Skagit County Code.

8. Unanticipated Discovery of Cultural Resources and Human Skeletal Remains

8.1. The Contractor and Sub-Contractors will comply with the Plan and Procedures for Unanticipated Discovery of Cultural resources and Human Skeletal Remains.

8.2. The Contractor and Sub-Contractor's must train their employees on the plan.

8.3. The plan is located in Appendix A.

9. Required Deliverables

9.1. Tape drops of all antenna center lines at each site.

9.2. Photo documentation of Tape Drops.

9.3. Photos of antennas and mounts

9.4. Photos of coax runs

10. Project Schedule

10.1. Project must be completed by September 30th, 2020.

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Bidder's Checklist

General Contractor Resume

R56 Training Certificates

Cable Antenna Analyzer Training Certificates

Competent Climber/Rescuer 4th Edition Certificates

Approved by American Tower Corporation

Proposal Form.

Bid Bond

Performance Bond

Company Profile Form and References (3 references required)

Non-Collusion Affidavit

Proof of Insurance

Federal Debarment Form (Part of this project may funded by a HLS grant).

Proposal Authorization Form

Notation of any exceptions taken to the Skagit 911 bid specifications and/or
Standard Purchasing Contract

Proposal Form

Bid Costs	Amount
Project Cost	
Washington State Sales Tax (8.8%)	
Total:	

Completion	Yes/No
Intentionally left blank	

Addenda Acknowledgement	Date

Company Information	Information
Legal Name of Vendor	
TIN:	
Address	
City, State, Zip	
Phone and Fax	
WA UBI Number	
WA L&I Number/Account Current	
Employment Security Number	
WA Excise Tax ID	
WA Contractor License Number	
Business License?	
Are you on the WA State Debarred List?	
Name of Preparer and Title	
Signature of Preparer	
Date	

Company Profile and References

Nearest Office Location?	
How Many Years in Business?	
How many projects of this type have you completed in the last 5 years?	
Annual Sales/Contract Amounts?	
Is there any Pending Litigation against your Company?	
Ownership Structure (Corporation, LLC, Sole Proprietor, etc.)	
Reference 1	
Company	
Contact	
Telephone Number	
Project Type	
Reference 2	
Company	
Contact	
Telephone Number	
Project Type	
Reference 3	
Company	
Contact	
Telephone Number	
Project Type	

NON-COLLUSION AFFIDAVIT

STATE OF WASHINGTON)

COUNTY OF SKAGIT)

The undersigned, being first duly sworn on oath, says that the proposal herewith submitted is a genuine and not a sham or collusive proposal, or made in the interest or on behalf of any person not therein named; and (s)he further says that the said Vendor has not directly or indirectly induced or solicited any Vendor on the above work or supplies to put in a sham proposal, or any other person or corporation to refrain from proposing; and that said Vendor has not in any manner sought by collusion to secure to him/her self an advantage over any other Vendor or Vendors.

Signature of Vendor/Contractor

Subscribed and sworn to before me this ____ day of _____, 2018.

Notary Public in and for the State of Washington.

Residing at _____

My Comm. Exp.: _____

PROOF OF INSURANCE

The Contractor shall provide proof of insurance for Commercial General Liability or Professional Liability in the amount of \$1,000,000.00 to cover Contractor's activities during the term of this Contract. Proof of insurance shall be in a form acceptable and approved by the Skagit 911. The type of insurance required by this Agreement is marked below.

- ☐ 1) Commercial General Liability Insurance Certificate Holder – Skagit 911

The Certificate must name the Skagit 911 as additional insured: Skagit 911, their Board of Directors, officers and employees are named as additional insured.

Thirty (30) days written notice must be provided to Skagit 911 of cancellation of the insurance policy.

- ☐ 2) Professional Liability Certificate Holder – Skagit 911

Thirty (30) days written notice must be provided to Skagit 911 of cancellation of the insurance policy.

NOTE: No contract shall form until and unless a copy of the Certificate of Insurance, properly completed and in the amount required, is attached hereto.

Date

Risk Manager

IN WITNESS WHEREOF, the parties have executed this Agreement
this ____ day of _____, _____.

Proposal Authorization

As the _____ of the company, I certify that I am
empowered to act on behalf of _____ in signing proposals.

Signature

Printed Name and Title

Notary Public in and for the

State of: _____

Residing: _____

My Commission Expires: _____



**Certification Regarding
Debarment, Suspension, Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 13 CFR Part 145. The regulations were published as Part VII of the May 26, 1988 *Federal Register* (pages 19160-19211). Copies of the regulations may be obtained by contacting the person to which this proposal is submitted.

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals are presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Business Name _____

Date: _____

By: _____
Name and Title of Authorized Representative

Signature of Authorized Representative

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
3. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
4. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations (13CFR Part 145).
6. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
7. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Non-procurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Acknowledgement of Pre-Proposal Addenda

I acknowledge receipt of the following pre-proposal addenda and have incorporated the same into these proposal documents:

Signature

Printed Name and Title

APPENDIX A

PLAN AND PROCEDURES FOR THE UNANTICIPATED DISCOVERY OF CULTURAL RESOURCES AND HUMAN SKELETAL REMAINS.

Skagit County Sheriff's Office South Lookout and Lake McMurray Radio Sites
PROJECT, in SKAGIT COUNTY WASHINGTON.

1. INTRODUCTION

The Skagit County Sheriff plans to construct the South Lookout and Lake McMurray Radio Sites Project. The purpose of this project is to construct two mission critical public safety communications sites. The following Unanticipated Discovery Plan (UDP) outlines procedures to follow, in accordance with State and Federal laws, if archaeological materials or human remains are discovered at the job sites.

2. RECOGNIZING CULTURAL RESOURCES

A cultural resource discovery could be prehistoric or historic. Examples include:

- An accumulation of shell, burned rocks, or other food related materials
- Bones or small pieces of bone,
- An area of charcoal or very dark stained soil with artifacts,
- Stone tools or waste flakes (i.e. an arrowhead, or stone chips),
- Clusters of tin cans or bottles, logging or agricultural equipment that appears to be older than 50 years,
- Buried railroad tracks, decking, or other industrial materials.

When in doubt, assume the material is a cultural resource.

3. ON-SITE RESPONSIBILITIES

STEP 1: STOP WORK - If any Skagit County Sheriff's Office employee, Skagit 911 employee, contractor or sub-contractor believes that they have uncovered any cultural resource at any point in the project, all work in and adjacent to the discovery area must stop. The discovery location should not be left unsecured at any time.

STEP 2: NOTIFY MONITOR – There is no archeological monitor for this project.

STEP 3: NOTIFY PROJECT MANAGEMENT – Contact the Skagit County Sheriff's Office Project Manager and Skagit 911's Project Manager. Skagit County Sheriff's Office Project Manager and Skagit 911's Project Manager will coordinate notification of the Department of Commerce Grant Manager, the State of Washington Department of Archaeology & Historic Preservation, and the concerned Tribes. See appendix A of this plan for the project contacts list.

If human remains are encountered, treat them with dignity and respect at all times. Cover the remains with a tarp or other materials (not soil or rocks) for temporary protection in place and to shield them from being photographed. Do not call 911 or speak with the media.

4. FURTHER CONTACTS AND CONSULTATION

Project Management's Responsibilities:

- A. **Protect Find:** Project Management is responsible for taking appropriate steps to protect the discovery site. All work will stop in an area adequate to provide for the total security, protection, and integrity of the resource. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed following provisions for treating archaeological/cultural material as set forth in this document.
- B. **Direct Construction Elsewhere On-Site:** Project Management may direct construction away from the cultural resources to work in other areas prior to contacting the concerned parties.
- C. **Notify DAHP:** Project Management will notify the State of Washington Department of Archaeology & Historic Preservation.
- D. **Notify the Tribes:** Project Management will notify the affected Tribes
- E. **Notify the Department of Commerce:** Project management will notify the Washington State Department of Commerce Grant Coordinator.
- F. **Human Remains:** If the find may be human remains or funerary objects, Project Management will ensure that a qualified individual examines the find. If it is determined to be human remains, the procedure described in Section 5 will be followed.

- G. Project Contact List:** The project contact list for Project Management, DAHP, and the Tribes is in Appendix A.

5. SPECIAL PROCEDURES FOR THE DISCOVERY OF HUMAN SKELETAL MATERIAL

Any human skeletal remains, regardless of ethnic origin, will at all times be treated with dignity and respect. If the project occurs on federal lands (e.g., National Forest or Park, military reservation) the provisions of the Native American Graves Protection and Repatriation Act of 1990 apply, and the responsible federal agency will follow its provisions.

If the project occurs on non-federal lands, the Skagit County Sheriff's Office and Skagit 911 will comply with applicable State and Federal laws, and the following procedure:

A. Notify Law Enforcement Agency and Coroner's Office

1. In addition to the actions described in Sections 3 and 4, the Project Management will immediately notify the local law enforcement agency and the coroner's office in the appropriate County.
2. The coroner (with assistance of law enforcement personnel) will determine if the remains are human and whether the discovery site constitutes a crime scene, and will notify DAHP.

B. Per RCW 27.53.030, RCW 68.50, and RCW 68.60 DAHP will have jurisdiction over non-forensic human remains.

6. DOCUMENTATION OF ARCHAEOLOGICAL MATERIALS

Archaeological deposits discovered during construction will be assumed eligible for inclusion in the National Register of Historic Places under Criterion D.

A qualified Archaeologist will ensure the proper documentation and assessment of any discovered cultural resources in cooperation with the federal agency(s), DAHP, affected tribes.

All prehistoric and historic cultural material discovered during project construction will be recorded by a professional archaeologist on State of Washington cultural resource site or isolate form using standard techniques. Site overviews, features, and artifacts will be photographed; stratigraphic profiles and soil/sediment descriptions will be prepared for subsurface exposures. Discovery locations will be documented on scaled site plans and site location maps.

Cultural features, horizons and artifacts detected in buried sediments may require further evaluation using hand-dug test units. Units may be dug in controlled fashion to expose features, collect samples from undisturbed contexts, or interpret complex stratigraphy. A test excavation unit or small trench might also be used to determine if an intact occupation surface is present. Test units will be used only when necessary to gather information on the nature, extent, and integrity of subsurface cultural deposits to evaluate the site's significance. Excavations will be conducted using state-of-the-art techniques for controlling provenience.

Spatial information, depth of excavation levels, natural and cultural stratigraphy, presence or absence of cultural material, and depth to sterile soil, regolith, or bedrock will be recorded for each probe on a standard form. Test excavation units will be recorded on unit-level forms, which include plan maps for each excavated level, and material type, number, and vertical provenience (depth below surface and stratum association where applicable) for all artifacts recovered from the level. A stratigraphic profile will be drawn for at least one wall of each test excavation unit.

Sediments excavated for purposes of cultural resources investigation will be screened through 1/8-inch mesh, unless soil conditions warrant 1/4-inch mesh.

All prehistoric and historic artifacts collected from the surface and from probes and excavation units will be analyzed, catalogued, and temporarily curated. Ultimate disposition of cultural materials will be determined in consultation with DAHP and the affected tribes.

Within 90 days of concluding fieldwork, a technical report describing any and all monitoring and resultant archaeological excavations will be provided to the Project Manager by a qualified archaeologist who will forward the report to DAHP, and the affected Tribe(s).

If assessment activity exposes human remains (burials, isolated teeth, or bones), the process described in Section 7 below will be followed.

7. PROCEEDING WITH CONSTRUCTION

Project construction outside the discovery location may continue while documentation and assessment of the cultural resources proceed. A qualified Archaeologist must determine the boundaries of the discovery location. In consultation with DAHP and affected tribes, Project Manager the qualified Archaeologist will determine the appropriate level of documentation and treatment of the resource. DAHP will make the final determinations about treatment and documentation.

Construction may continue at the discovery location only after the process outlined in this plan is followed and the qualified Archaeologist determines that compliance with state and federal laws is complete.

CONTACT LIST

Skagit County Sheriff's Office

Project Manager

Chief Chris Baldwin
600 S. 3rd St, Suite 100
Mount Vernon, WA 98273
360-416-1904

Alternate

Chief Tobin Meyer
600 S. 3rd St, Suite 100
Mount Vernon, WA 98273
360-416-1903

Skagit 911

Project Manager

Mike Voss
2911 E College Way
Mount Vernon, WA 98273
360-428-3206

WA State Department of Commerce

Grant Manager

Susan Bütz
1011 Plum Street SE
Olympia, WA 98504-2525
360-725-2741

WA Department of Archaeology and Historic Preservation

Main

Dr. Allyson Brooks
Washington State Historic
Preservation Officer
360-586-3066

Samish Indian Nation

Tom Wooten, Chair
2918 Commercial Ave
Anacortes, WA 98221
360-293-6404

Samish Indian Nation

Jacquelyn Ferry, Cultural Resources
Coordinator
8327 Summit Park Road
Anacortes, WA 98221
360-293-6404, Ext 126

Sauk-Suiattle Indian Tribe

Benjamin Joseph, Chair
5318 Chief Brown Lane
Darrington, WA 98241
360-436-0131

Sauk-Suiattle Indian Tribe

Kevin Joseph, Cultural Resources
Coordinator
5318 Chief Brown Lane
Darrington, WA 98241
360-436-2833

Swinomish Indian Tribal Community

Brian Cladoosby, Chair
11404 Moorage Way
LaConner, WA 98257
360-466-7205

Swinomish Indian Tribal Community

James Harrison or Josephine Jefferson,
Cultural Resources Coordinator
11404 Moorage Way
LaConner, WA 98257
360-466-7222

Upper Skagit Indian Tribe

Jennifer Washington, Chair
25944 Community Plaza
Sedro Woolley, WA 98284
360-854-7090

Upper Skagit Indian Tribe

Scott Schuyler, Cultural Resource
Coordinator
25944 Community Plaza
Sedro Woolley, WA 98284
360-854-7009

Lummi Nation

Jerimiah Julius, Chair
2616 Kwina Road
Bellingham, WA 98226
360-384-1489

Lummi Nation

Lena Tso, Cultural Resources
Coordinator
2616 Kwina Road
Bellingham, WA 98226
360-312-2257

Nooksack Indian Tribe

Roswell Cline, Chair
4979 Mount Baker Hwy Suite F
Deming, WA 98244
360-592-5164

Nooksack Indian Tribe

George Swanaset, Cultural Resources
Coordinator
4979 Mount Baker Hwy Suite F
Deming, WA 98244
360-592-5176

Appendix B

Skagit 911 CONTRACTOR SERVICES AGREEMENT

Skagit 911 and _____ (hereinafter referred to as Contractor), for and in consideration of the mutual benefits do hereby agree as follows:

1. SCOPE OF PROJECT, TECHNICAL SPECIFICATIONS AND CONDITIONS OF WORK:

1.1. Term of contract: contractor shall begin work as soon as is practicable and will complete work within ____ days of execution..

1.2. To the extent not inconsistent with this agreement, this contract includes the Request for Proposal and the submitted Proposal, and contract plans and specifications, all incorporated herein by this reference.

1.3. Scope of project: Installation of Antennas, Coax, Waveguide, grounding, testing, and alignment described in the East County Antenna Project Documents.

2. The parties agree that Contractor is an independent contractor, and not an employee nor agent of Skagit 911. Contractor hereby agrees not to make any representations to any third party, nor to allow such third party to remain under the misimpression that Contractor is an employee of Skagit 911. All payments made hereunder and all services performed shall be made and performed pursuant to this Agreement by the Contractor as an independent contractor

3. Defense & Indemnity Agreement: The Contractor agrees to defend, indemnify and save harmless Skagit 911, its appointed and elective officers and employees, from and against all loss or expense, including but not limited to judgments, settlements, attorney's fees and costs by reason of any and all claims and demands upon Skagit 911, its elected or appointed officials or employees for damages because of personal or bodily injury, including death at any time resulting therefrom, sustained by any person or persons and on account of damage to property including loss of use thereof, whether such injury to persons or damage to property is due to the negligence of the Contractor, its subcontractors, its elected officers, employees or their agents, except only such injury or damage as shall have been occasioned by the sole negligence of Skagit 911, its appointed or elected officials or employees. It is further provided that no liability shall attach to Skagit 911 by reason of entering into this contract, except as expressly provided herein. Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor and the Public Entity, its officers, officials, employees, and volunteers, the Contractor's liability hereunder shall be only to the extent of the Contractor's negligence. It is further specifically and expressly understood that the indemnification

provided herein constitutes the Contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

4. Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Contractor and the Public Entity, its officers, officials, employees, and volunteers, the Contractor's liability hereunder shall be only to the extent of the Contractor's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Contractor's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.
5. This Contract shall commence on _____ and continue for ____ calendar days or until the project is deemed complete and the work and materials are accepted by Skagit 911.
6. The contractor has ____ calendar days from the signing of this contract to complete the services/product. There will be a \$100.00 per day performance penalty for each day the project is not complete past ____ calendars days from the execution of this contract.
7. Weather delays – The contractor must apply within 48 hours of a construction day lost due to inclement weather to have the day(s) added to the 90 day calendar day limit. The application shall include the day(s) in question, sites affected, and the weather conditions that delayed work and what work was delayed. Skagit 911 shall have sole right to determine whether or not to accept or deny the contractor's application.
8. The Contractor shall not assign any interest in this Contract and shall not transfer any interest in same without prior written County consent.
9. The Contractor will secure, at his own expense, all personnel required in performing said services under this Contract. Contractor shall be personally liable for applicable payroll, labor and industries premiums and all applicable taxes and shall hold Skagit 911 harmless therefrom.
10. The Contractor shall provide proof of insurance for Commercial General Liability coverage in the amount of \$1,000,000 per occurrence and shall cover liability arising from premises, operations, independent contractors, products-completed operations, stop gap liability, personal injury and advertising injury, and liability assumed under an insured contract. . Proof of insurance shall be in a form acceptable and approved by Skagit 911. A certificate of insurance naming Skagit 911, its elected officers, and employees as additional insureds and naming Skagit 911 as a certificate holder shall accompany this Contract for signing. Thirty (30) days' written notice to Skagit 911 of cancellation of the insurance policy is required. No contract shall form until and unless a copy of the certificate of insurance, in the amount required, is attached hereto.
11. The Contractor shall provide proof to Skagit 911 that it is insured under **automobile and vehicle liability insurance** covering claims for injuries to members of the public and/or

damages to property of others arising from use of motor vehicles, including onsite and offsite operations, and owned, non-owned, or hired vehicles, and general **comprehensive** liability insurance covering the work within the scope of this agreement, in such form and with policy limits in such amounts (\$1 Million per accident minimum) as are acceptable to Skagit 911. The Contractor agrees to name Skagit 911 as an **additional insured** when obtaining liability insurance and to provide a **Certificate of Insurance** to this effect.

12. Prevailing Wages (**for work/services performed in the State of Washington**): Contractor and subcontractor shall submit a "Statement of Intent to Pay Prevailing Wages" prior to submitting first application for payment. Each statement of intent to pay prevailing wages must be approved by the Industrial Statistician of the Department of Labor and Industrial Statistician of the Department of Labor and Industries before it is submitted to Skagit 911. Unless otherwise authorized by the Department of Labor and Industries, each voucher claim submitted by a Contractor for payment on a project estimate shall state that the prevailing wages have been paid in accordance with the pre-filed statement or statements of Intent to Pay Prevailing Wages on file with the public agency.

13. Termination for Public Convenience: Skagit 911 may terminate the contract in whole or in part whenever it determines, in its sole discretion that such termination is in the best interests of Skagit 911. Whenever the contract is terminated in accordance with this paragraph, the Contractor shall be entitled to payment for actual work performed at unit contract prices for completed items of work. An equitable adjustment in the contract price for partially completed items of work will be made, but such adjustment shall not include provision for loss of anticipated profit on deleted or uncompleted work. Termination of this contract by Skagit 911 at any time during the term, whether for default or convenience, shall not constitute a breach of contract by Skagit 911.

If sufficient funds are not appropriated or allocated for payment under this contract for any future fiscal period, Skagit 911 will not be obligated to make payments for services or amounts incurred after the end of the current fiscal period. No penalty or expense shall accrue to Skagit 911 in the event this provision applies.

14. Bonding Requirements: Skagit 911 requires the following bonds; combination documents, cash deposits, or assigned savings accounts are acceptable alternatives:

14.1. Bid Bond: 5%, if the work is subject to bid procedures;

14.2. Performance bond in the form made a part of this agreement. In lieu thereof for projects of \$35,000 or less, at the contractor's option, retainage of 50% will be held until releasable under RCW 39.08.010.

15. Debarment. Contractor represents and agrees that it is not listed on any state or Federal debarment list and further agrees that none of its sub-contractors are listed on any state or federal debarment list.

16. Payment

- 16.1. The maximum payable hereunder is _____...
- 16.2. The Contractor will be paid on the basis of invoices for work satisfactorily completed. Invoices are submitted to the Project Manager for approval prior to payment. No final payment shall be made until the project is accepted by the Skagit 911.
- 16.3. Prior to any payment hereunder, contractor is responsible for complying with applicable Department of Labor and Industries and Department of Revenue requirements and procedures. (General conditions section 1-07.9. If Federal Funds, Davis-Bacon Act and U. S. Department of Labor requirements.) This includes obtaining and timely filing of Intent to Pay Prevailing Wages, Affidavit of Wages paid, Notice of Completion of Public Works Contract, and any other required documents.
- 16.4. Retainage will be administered in accordance with RCW 60.28.010(1).

IN WITNESS WHEREOF, the parties have executed this Agreement

This ____ day of _____, _____.

APPROVED:

CONTRACTOR:

SKAGIT 911 Board of Directors

Signature & Title of Signatory

Matt Miller, Chair

Print Name

Helen Rasmussen, Director, Skagit 911

Title

Mailing Address:

Attest:

by _____
Clerk of the Board

Telephone No. _____

Fed. Tax ID # _____

Contractor Lic. #. _____

PUBLIC WORKS PERFORMANCE BOND

To Skagit 911, WA

Bond No. _____

Skagit 911, Washington, has awarded to _____ (Principal), a contract for the construction of the project designated as _____ Project No. _____, in Mount Vernon, Washington (Contract), and said Principal is required to furnish a bond for performance of all obligations under the Contract.

The Principal, and _____ (Surety), a corporation organized under the laws of the State of _____ and licensed to do business in the State of Washington as surety and named in the current list of "Surety Companies Acceptable in Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Dept., are jointly and severally held and firmly bound to Skagit 911, in the sum of _____ US Dollars (\$ _____) Total Contract Amount, subject to the provisions herein.

This statutory performance bond shall become null and void, if and when the Principal, its heirs, executors, administrators, successors, or assigns shall well and faithfully perform all of the Principal's obligations under the Contract and fulfill all the terms and conditions of all duly authorized modifications, additions, and changes to said Contract that may hereafter be made, at the time and in the manner therein specified; and if such performance obligations have not been fulfilled, this bond shall remain in full force and effect.

The Surety for value received agrees that no change, extension of time, alteration or addition to the terms of the Contract, the specifications accompanying the Contract, or to the work to be performed under the Contract shall in any way affect its obligation on this bond, and waives notice of any change, extension of time, alteration or addition to the terms of the Contract or the work performed. The Surety agrees that modifications and changes to the terms and conditions of the Contract that increase the total amount to be paid the Principal shall automatically increase the obligation of the Surety on this bond and notice to Surety is not required for such increased obligation.

This bond may be executed in two (2) original counterparts, and shall be signed by the parties' duly authorized officers. This bond will only be accepted if it is accompanied by a fully executed and original power of attorney for the officer executing on behalf of the surety.

PRINCIPAL

SURETY

Principal Signature _____ Date _____ Surety Signature _____ Date _____

Printed Name _____ Printed Name _____

Title _____ Title _____

Name, address, and telephone of local office/agent of Surety Company is:

Approved as to form:

Signature _____ Title _____ Date _____

RETAINAGE INVESTMENT OPTION

CONTRACTOR: _____

PROJECT NAME: Dispatch Floor Modernization

DATE: _____

Pursuant to Chapter 60.28 RCW, you may choose how your retainage under this contract will be held and invested. Please complete and sign this form indicating your preference. If you fail to do so, Skagit 911 will hold your retainage as described in "Current Expense", option 1 below.

- _____ 1. Current Expense: Skagit 911 will retain your money in its Current Expense Fund Account until thirty days following final acceptance of the improvement or work as completed. You will not receive interest earned on this money.
- _____ 2. Interest Bearing Account: Skagit 911 will deposit retainage checks in an interest-bearing account in a bank, mutual savings bank, or savings and loan association, not subject to withdrawal until after the final acceptance of the improvement or work as completed or until agreed to by both parties. Interest on the account will be paid to you.
- _____ 3. Escrow / Investments: Skagit 911 will place the retainage checks in escrow with a bank or trust company until thirty days following the final acceptance of the improvement or work as completed. When the monies reserved are to be placed in escrow, Skagit 911 will issue a check representing the sum of the monies reserve payable to the bank or trust company and you jointly. This check will be converted into bonds and securities chosen by you and approved by Skagit 911 and these bonds and securities will be held in escrow. Interest on these bonds and securities will be paid to you as interest accrues. Selection of this option requires an escrow agreement to be completed by the contractor. Skagit 911 will provide the form for use by the contractor. If the contractor elects to use the Escrow Investment option, please complete attached Escrow Agreement.

BONDS AND SECURITIES ACCEPTABLE BY SKAGIT 911

1. Bills, certificates, notes or bonds of the United States.
2. Other obligations of the United States or its agencies.
3. Indebtedness of the Federal national Mortgage Association.
4. Time Deposits in commercial banks.

Designate below the type of investment selected:

- _____ 4. Bond-in-Lieu: With the consent of Skagit 911, the contractor may submit a bond for all or any portion of the amount of funds retained by Skagit 911 in a form acceptable to Skagit 911 and from a bonding company meeting standards established by Skagit 911, if any.

Unless otherwise indicated, the contractor elects to submit a bond for the entire 5% retainage amount. Such bond and any proceeds there from shall be made subject to all claims and liens and in the same manner and priority as set forth for retained percentages in Chapter 60.28 RCW. Whenever Skagit 911 accepts a bond-in-lieu of retained funds from a contractor, the contractor shall accept like bonds from any subcontractors or suppliers from which the contractor has retained funds. The contractor shall then release the funds retained from the subcontractor or supplier, to the subcontractor or supplier, within thirty days of the contractor's receipt of the retained funds from Skagit 911.

Retainage is normally released 30 - 45 days after final acceptance of work by Skagit 911, or following receipt of Labor and Industries / Department of Revenue clearance, whichever takes longer.

(Contractor's Signature)

Date

Title

RETAINAGE ACCOUNT _____

CITY _____

ESCROW AGREEMENT / INTEREST BEARING ACCOUNT

TO: _____
Bank or Trust Company

Branch

Attn:

Street Address

City, State, Zip

The undersigned _____ hereinafter referred to as the Contractor, has directed Skagit 911 to deliver to you its warrants or checks which shall be payable to you and the Contractor jointly. Such warrants or checks are to be held and disposed of by you in accordance with the following instructions and upon the terms and conditions hereinafter set forth.

INSTRUCTIONS

1. The Skagit 911 shall deliver to you from time to time warrants or checks payable jointly to you and the Contractor. You are hereby authorized by the Contractor to endorse in the Contractor's name any such warrant or check so that you may receive the proceeds thereof and invest the same. The power of endorsement hereby granted to you by the Contractor shall be deemed a power coupled with an interest and shall be irrevocable during the term of this escrow / interest bearing account. Although you may be a payee named in such warrants or checks as shall be delivered to you, your duties and responsibilities with respect to the same shall be only those duties and responsibilities which a depository bank would have pursuant to Article 4 of the Uniform Commercial Code of the State of Washington for an item deposited with it for collection as of the date such warrant or check shall be delivered to you. The proceeds from collections shall be used by you to purchase, as directed by the Contractor, bonds or other securities chosen by the Contractor and approved by you, and Skagit 911. For the purpose of each such purchase, you may follow the last written direction received by you from the Contractor, provided such direction otherwise conforms with the restrictions on investments recited herein. A list of such bonds, or other securities approved by Skagit 911 are indicated on the Retainage Investment Option form. No further approval is necessary if any of these bonds or securities are selected by the Contractor. Other bonds or securities, except stocks, may be selected by the Contractor, subject to express written approval of you and Skagit 911. Purchase of such bonds or other securities shall be in a form which shall allow you alone to reconvert such bonds or other securities into money if you are required to do so by Skagit 911 as provided in Paragraph 4 of the Escrow Agreement.

The investments selected by the Contractor, approved by Skagit 911 and purchased by you must mature on or prior to the date set for the completion of the contract, including extensions thereof or thirty days following the final acceptance of said improvement or work.

2. When and as interest on the securities held by you pursuant to this agreement accrues and is paid, you shall collect such interest and forward it to the Contractor at its address designated below unless with your written consent you are otherwise directed in writing by the Contractor.

3. You are not authorized to deliver to the Contractor all or any part of the securities held by you pursuant to this agreement (or any monies derived from the sale of such securities, or the negotiation of Skagit 911's warrants or checks) except in accordance with written instructions from Skagit 911. Skagit 911 shall inform you and keep you informed in writing of the name of the person or persons with authority to give you such written instructions. Compliance with such instruction shall relieve you of any further liability related thereto. The estimated completion date on the contract underlying this Escrow / Interest Bearing Account Agreement is _____. Upon request by you, Skagit 911 shall advise you in writing of any change in the estimated completion date. If the estimated completion date is changed, you are authorized to reinvest the monies held hereunder in accordance with the new estimated completion date.

4. In the event Skagit 911 orders you to do so in writing, and notwithstanding any other provisions of this agreement you shall, within thirty-five (35) days of receipt of such order, reconvert into money the securities held by you pursuant to this agreement and return such money together with any other monies, including accrued interest on such securities, held by you hereunder, to Skagit 911.

5. The Contractor agrees to pay you as compensation for your services hereunder as follows:

Payment of all fees shall be the sole responsibility of the Contractor and shall not be deducted from any property placed with you pursuant to this agreement until and unless Skagit 911 directs the release to the

Contractor of the securities and monies held hereunder whereupon you shall be granted a first lien upon such property released and shall be entitled to reimburse yourself from such property for the entire amount of your fees and any amounts which might be owing as provided for herein. In the event that you are made a party to any litigation with respect to the property held by you hereunder, or in the event that the conditions of this escrow are not promptly fulfilled or that you are required to render any services not provided for in these instructions, or that there is any assignment of the interest of this escrow or any modifications hereof, you shall be entitled to reasonable compensation for such extraordinary services from the Contractor and reimbursement from the Contractor for all costs and expenses, including attorney fees occasioned by such default, delay, controversy or litigations.

6. Should you at any time and for any reason desire to be relieved of your obligations as escrow or interest bearing account holder hereunder, you shall give written notice to Skagit 911 and Contractor. Skagit 911 and Contractor shall, within 20 days of the receipt of such notice, jointly appoint a successor escrow holder and instruct you to deliver all securities and funds held hereunder to said successor. If you are not notified of the appointment of the successor escrow holder within 20 days, you may return the subject matter hereof to Skagit 911 and upon doing, it absolves you from all further charges and obligations in connection with this escrow or interest bearing account.

7. This agreement shall not be binding until executed by the Contractor and City and accepted by you.

8. This instrument contains the entire agreement between you, the Contractor and Skagit 911 with respect to this escrow and you are not a party to nor bound by any instrument or agreement other than this; you shall not be required to take notice if any default or any other matter, not bound by nor required to give notice or demand, nor required to take any action whatever except as herein expressly provided; you shall not be liable for any loss or damage not caused by your own negligence or willful misconduct.

9. The foregoing provisions shall be binding upon the assigns, successors, personal representatives and heirs of the parties hereto.

The undersigned have read and hereby approve the instructions as given above governing the administration of this escrow or interest bearing account and do hereby execute this agreement on this _____ day of _____, 20____.

Contractor

BY: _____
Signature & Title

Address

City State Zip

Skagit 911

BY: _____
Julia Johnson, Chair

2911 E College Way, Suite A
Address

Mount Vernon, Washington, 98273
City State Zip

BY: _____
Helen Rasmussen, Director

Mount Vernon, Washington, 98273
City State Zip

ATTESTED BY:

Finance Administrator

The above escrow instructions received and accepted this _____ day of _____, 20____.

Bank or Trust Company

By: _____

Specified Product Information Sheets

ANTENNAS

- SD212-SF2P4SNM(D00)** 2 dipole, 5.5 dBd, offset, 138-174 MHz
- Covers the entire 138-174 MHz frequency range
 - 5.5 dBd gain with offset pattern
 - 300 Watt power handling
 - Can be top or side mounted (Universal mount)

**Recommend SMK-125-A3 or SMK-125-A7 for Offset Side Mount.
 Available from Sinclair separately.**

The SD212 series is a 2-bay exposed dipole antenna designed for applications where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

The design of these antennas provides for coverage from 118 to 225 MHz in 3 sub bands, 118-138 MHz for civil aviation applications, 138-174 MHz for private mobile networks, and public safety, and 220-225 MHz for transportation networks.

The standard connector offered is N male which is terminated on a 1 foot cable.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SD212-SF2P4SNM(D00)	Issue: 8	Dated: 20-10-15
EPR 016861				Dated: 30-09-13
Customer Tech Manual 005130				

Electrical Specifications

Frequency Range	MHz	138 to 174
Bandwidth	MHz	36
Connector		N-Male
Gain (nominal)	dBd (dBi)	5.5 (7.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Offset
Horizontal beamwidth (typ)	degrees	210
Vertical beamwidth (typ)	degrees	34
Average Power Input (max)	W	300
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

Notes

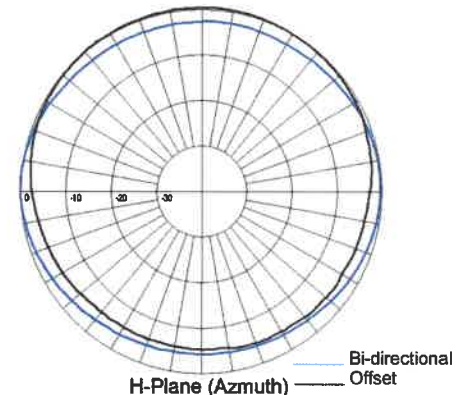
- *1 : 0.5" radial ice
- *2 : Value based on 100 mph with 0" ice
- *3 : Value based on 100 mph with 0" ice
- *4 : Value based on 100 mph with 0" ice
- *5 : Value based on 100 mph with 0" ice

Mechanical Specifications

Width	in (mm)	23 (584)
Depth	in (mm)	2.5 (64)
Length/ Height	in (mm)	120 (3048)
Base pipe diameter	in (mm)	1.9 (48)
Base pipe mounting length	in (mm)	36 (914)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	20 (9.08)
Weight iced (1/2" ice)	lbs (kg)	46 (20.88)
Mounting Hardware (Optional)		Clamp005, Clamp015, or Clamp130
Actual Shipping weight	lbs (kg)	34 (15.44)
Shipping dimensions	in (mm)	124x26x6 (3150x660x152)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-125-A3 or SMK-125-A7

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	1.83 (0.17)
Wind Loading Area (1/2" ice)	ft ² (m ²)	3.25 (0.3) *1
Rated wind velocity (no ice)	mph (km/h)	155 (250)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral thrust (100 mph No Ice)	lbs (N)	68 (302.5) *2
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	34 (45.9) *3
Bending moment (100 mph No Ice)	ft-lbs (Nm)	218 (294.3) *4
Tip deflection (100 mph No Ice)	degrees	0.88 *5



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinclaire.com	salesuk@sinclaire.com	salesla@sinclaire.com	salescan@sinclaire.com

SC329-HF1SNM(D00-G06) Collinear omni, 6 dBd, HD, N-Male connector, 406-420 MHz

- Broadband collinear omni offers 6 dBd gain
- Rugged design offers high degree of operational reliability
- No ground radials, easy to install
- Pigtail with N-Male connector

The SC329-H series is a broadband collinear omni-directional antenna which offers 6 dBd gain in 20 MHz band splits ranging from 380-480 MHz.

The antenna is designed for a high degree of operational reliability in extreme wind, ice and corrosive conditions, but its relatively low mass and small wind-loading profile makes it easy to install. The antenna is DC grounded for protection against lightning and static conditions.

The antenna is available in 0,3 and 6 degree electrical downtilts.

Application Notes

- Other downtilts are available as Special Assembly. Large downtilts may reduce gain, bandwidth. Order times may vary on these items- please contact Sinclair customer service.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet EPR 018039 Customer Tech Manual 005941	SC329-HF1SNM(D00-G06)		Issue: 4	Dated: 14-12-16 Dated: 27-09-13

Electrical Specifications

Frequency Range	MHz	406 to 420
Bandwidth	MHz	14
Connector		N-Male
Gain (nominal)	dBd (dBi)	6 (8.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	12
Average Power Input (max)	W	500
Lightning protection		DC ground
Electrical tilt (available)		0,3, or 6 degrees

Mechanical Specifications

Width	in (mm)	2 (51)
Depth	in (mm)	2 (51)
Length	in (mm)	133.2 (3383)
Base pipe diameter	in (mm)	2 (51)
Base pipe mounting length	in (mm)	12 (305)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	12 (5.45)
Weight iced (1/2" ice)	lbs (kg)	27.1 (12.3)
Mounting Hardware (Included)		Clamp130
Estimated Shipping Weight	lbs (kg)	21 (9.53)
Shipping dimensions	in (mm)	162x4x4 (4115x102x102)
Mounting configurations		upright
Recommended For Offset Side Mount:		Not Required
Radome Colour		Blue

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft ² (m ²)	1.15 (0.11)
Wind Loading Area (1/2" ice)	ft ² (m ²)	1.79 (0.17)
Rated wind velocity (no ice)	mph (km/h)	140 (225)
Rated wind velocity (1/2" radial ice)	mph (km/h)	105 (169)
Lateral thrust (100 mph No Ice)	lbs (N)	45.8 (203.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	187 (252.5)
Tip deflection (100 mph No Ice)	degrees	3.7

Notes

*1 : Qty 2

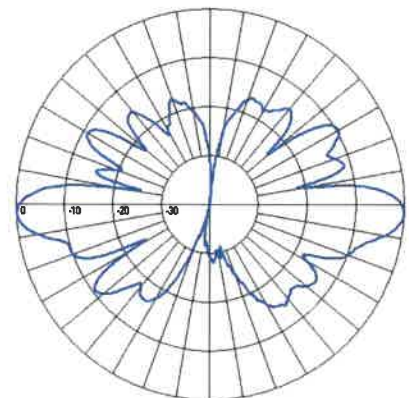
*2 : Values based on 100mph with 0 inches of ice

*3 : Values based on 100mph with 0 inches of ice

*4 : Values based on 100mph with 0 inches of ice

Ordering Information

Clamps included.



Elevation

*1

*2

*3

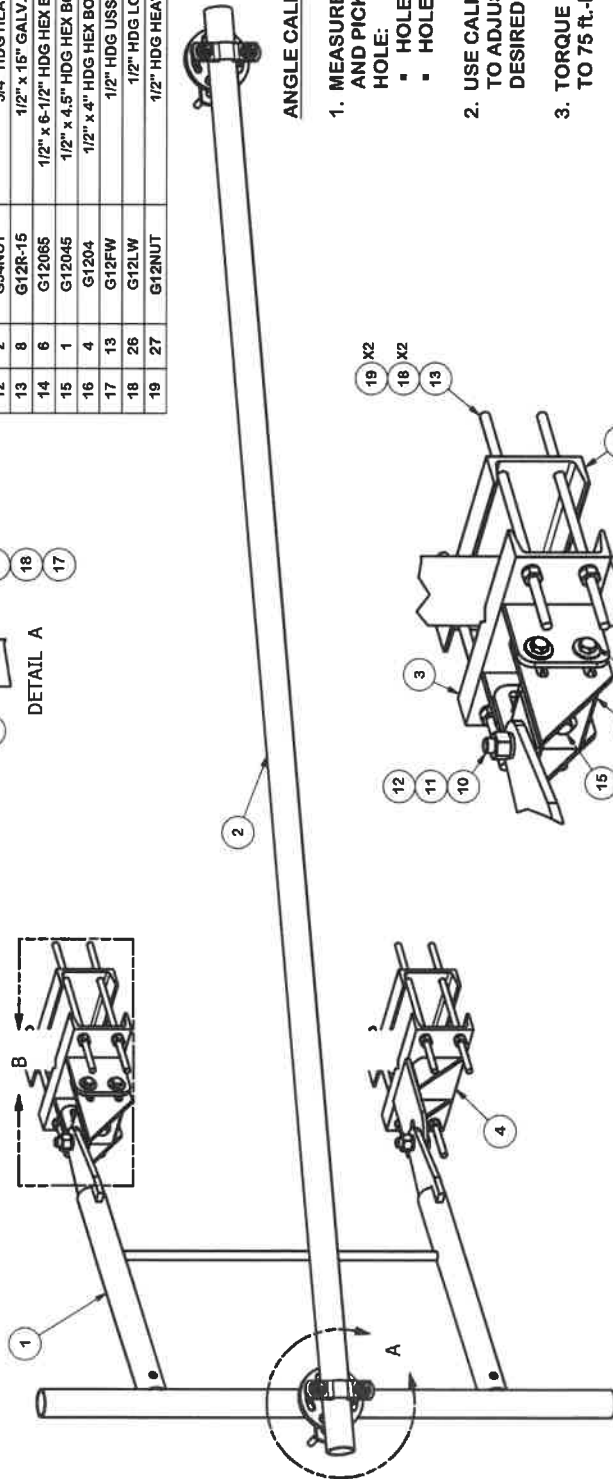
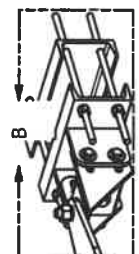
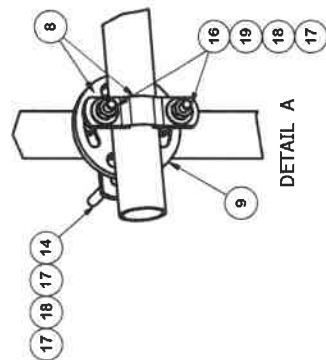
*4

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Antenna Mounts

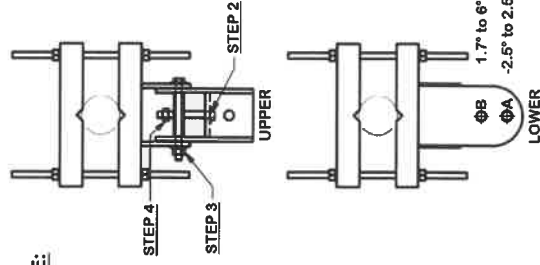
PARTS LIST							
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.	
1	1	X-192999	3' STANDOFF PIVOT ARM		43.65	43.65	
2	1	P2126	2-3/8" OD X 126" SCH 40 GALVANIZED PIPE	126 in	40.75	40.75	
3	1	X-SDCAMDS	DIAGONAL SLOT WELDMENT FOR BCAM		13.57	13.57	
4	1	X-MHTP	MULTI-HOLE TAPER PLATE WELDMENT		13.17	13.17	
5	1	X-SDCAMSS	STRAIGHT SLOT WELDMENT FOR BCAM		8.48	8.48	
6	2	X-LCBB	LEG CONNECTION BACKING BRACKET	12 in	7.56	15.11	
7	1	X-SDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM		1.43	1.43	
8	4	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	3.65	
9	2	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.51	5.01	
10	2	A34214	3/4"-10 X 2-1/4" A325 BOLT	2 1/4 in	0.47	0.95	
11	2	G34LW	3/4" HDG LOCKWASHER		0.04	0.09	
12	2	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.42	
13	8	G12R-15	1/2" x 15" GALV. THREADED ROD		0.84	6.69	
14	6	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	2.46	
15	1	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	0.30	
16	4	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	1.08	
17	13	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.44	
18	26	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.36	
19	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	1.93	
					TOTAL WT. #	169.12	

1-1/2" TO 9-1/2" LEG.



ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.5° TO 2.5°
 - HOLE B = 1.7° TO 6°
2. USE CALIBRATING BOLT TO ADJUST FRAME TO DESIRED TAPER
3. TORQUE LOCKING BOLTS TO 75 ft.-lbs.
4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.



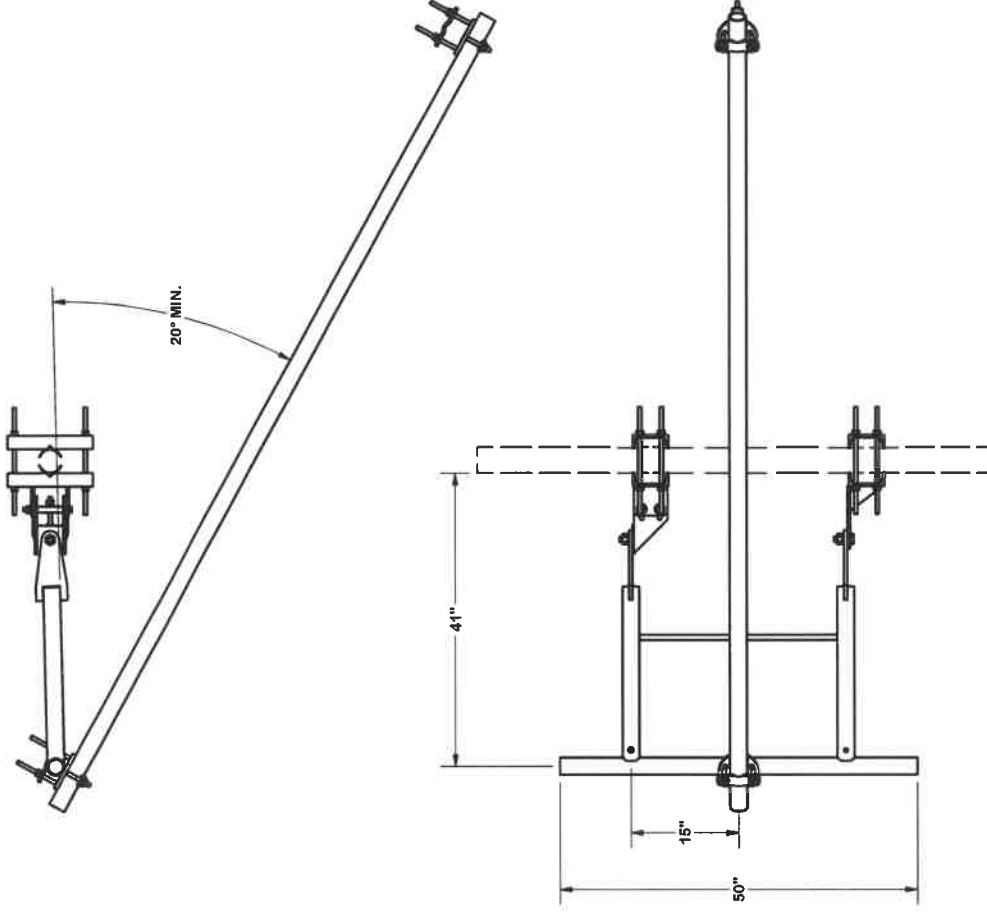
TOLERANCE NOTES
 TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.0307)
 DRILLED AND GAS CUT EDGES (± 0.0307) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.0107) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.0307)
 ALL OTHER ASSEMBLY (± 0.0307)
 DIMENSIONS ON THIS DRAWING ARE IN INCHES AND DECIMALS OF AN INCH. ANY USE OF DIMENSIONS WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS PROHIBITED.

Engineering Support Team:
1-888-753-7446
Salem, OR
Dallas, TX

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

DESCRIPTION	3' SIDE ARM (PSA3)	ENG. APPROVAL	CEK	8/31/2010	PART NO.	PSA3	PAGE	1 OF 2
CPD NO.	4749	DRAWN BY	CEK	8/31/2010	CHECKED BY	BMC	DWG. NO.	PSA3
CLASS	SUB	CUSTOMER						
		DRAWING USAGE	7/6/2017					

REV	DESCRIPTION OF REVISIONS	DATE
B	CHANGED SIDEARM LEG CONNECTION	6/8/2017
A	P1126 CHANGED TO P2126	11/13/2015
REV	REVISION HISTORY	



										PAGE 2 OF 2	
										PSA3	
										PSA3	
										PART NO.	
										DWG. NO.	
										ENG. APPROVAL	
										CHECKED BY	
										BMC	
										7/6/2017	
										CUSTOMER	
										DRAWING USAGE	
										CEK	
										8/31/2010	
										DRAWN BY	
										CEK	
										4749	
										CPD NO.	
										SUB	
										CLASS	
										3' SIDE ARM (PSA3)	
										DESCRIPTION	
										3' SIDE ARM (PSA3)	
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ANDREW/COMMSCOPE AVA5-50



AVA5-50

AVA5-50, HELIAX® Andrew Virtual Air™ Coaxial Cable, corrugated copper, 7/8 in, black PE jacket

Product Classification

Brand	HELIAX®
Product Series	AVA5-50
Product Type	Coaxial wireless cable

Standards And Qualifications

EN50575 CPR Cable EuroClass	Fca
-----------------------------	-----

Construction Materials

Jacket Material	PE
Outer Conductor Material	Corrugated copper
Dielectric Material	Foam PE
Flexibility	Standard
Inner Conductor Material	Copper tube
Jacket Color	Black

Dimensions

Nominal Size	7/8 in
Cable Weight	0.30 lb/ft 0.45 kg/m
Diameter Over Dielectric	24.130 mm 0.950 in
Diameter Over Jacket	27.991 mm 1.102 in
Inner Conductor OD	9.4488 mm 0.3720 in
Outer Conductor OD	25.400 mm 1.000 in

Electrical Specifications

Cable Impedance	50 ohm \pm 1 ohm
Capacitance	22.0 pF/ft 73.0 pF/m
dc Resistance, Inner Conductor	0.410 ohms/kft 1.435 ohms/km
dc Resistance, Outer Conductor	0.340 ohms/kft 1.116 ohms/km
dc Test Voltage	6000 V
Inductance	0.184 μ H/m 0.056 μ H/ft
Insulation Resistance	100000 Mohms•km
Jacket Spark Test Voltage (rms)	8000 V
Operating Frequency Band	1 – 5000 MHz
Peak Power	91.0 kW
Velocity	91%

Product Specifications



AVA5-50

Environmental Specifications

Installation Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

General Specifications

Brand	HELIAX®
Ordering Note	CommScope® standard product (Global)
Specification Sheet Revision Level	B

Mechanical Specifications

Bending Moment	19.0 N-m 14.0 ft lb
Flat Plate Crush Strength	75.0 lb/in
Minimum Bend Radius, Multiple Bends	254.00 mm 10.00 in
Minimum Bend Radius, Single Bend	127.00 mm 5.00 in
Number of Bends, minimum	15
Number of Bends, typical	30
Tensile Strength	159 kg 350 lb

Note

Performance Note	Values typical, unless otherwise stated
------------------	---

Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
680–800 MHz	1.13	24.30
800–960 MHz	1.13	24.30
1700–2200 MHz	1.13	24.30

Product Specifications



AVA5-50

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.08	0.024	91.00
1	0.113	0.034	74.43
1.5	0.138	0.042	60.73
2	0.16	0.049	52.56
10	0.359	0.11	23.37
20	0.51	0.156	16.46
30	0.627	0.191	13.39
50	0.814	0.248	10.32
85	1.068	0.326	7.86
88	1.088	0.332	7.72
100	1.162	0.354	7.23
108	1.209	0.368	6.95
150	1.433	0.437	5.86
174	1.548	0.472	5.43
200	1.665	0.507	5.05
204	1.682	0.513	4.99
300	2.059	0.628	4.08
400	2.398	0.731	3.50
450	2.553	0.778	3.29
500	2.7	0.823	3.11
512	2.735	0.834	3.07
600	2.977	0.907	2.82
700	3.235	0.986	2.60
800	3.478	1.06	2.42
824	3.534	1.077	2.38
894	3.694	1.126	2.27
960	3.841	1.171	2.19
1000	3.927	1.197	2.14
1218	4.377	1.334	1.92
1250	4.44	1.353	1.89
1500	4.912	1.497	1.71
1700	5.268	1.606	1.59
1794	5.429	1.655	1.55
1800	5.439	1.658	1.54
2000	5.771	1.759	1.46
2100	5.933	1.808	1.42
2200	6.091	1.856	1.38
2300	6.247	1.904	1.34
2500	6.551	1.996	1.28
2700	6.845	2.086	1.23
3000	7.273	2.217	1.15
3400	7.819	2.383	1.07
3700	8.213	2.503	1.02
4000	8.596	2.62	0.98
5000	9.807	2.989	0.86

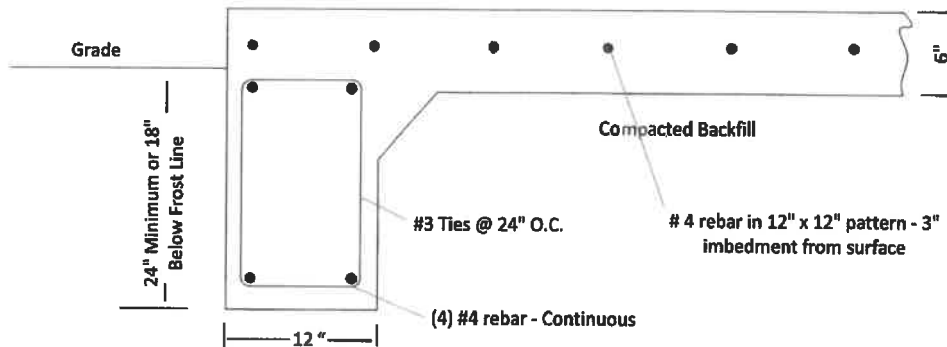
* Values typical, guaranteed within 5%

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available

FOUNDATION PLAN

Foundation Plan



Notes:

Foundation to be a thickened footing type slab foundation

Slab shall be 10' x 20' (contractor to verify dimensions)

The foundation walls shall extend below the frost line at least 18". Walls shall be at least 12" thick and contain 2 – number 4 rebar at the top, 2 - number 4 rebar at the bottom, and number 3 ties spaced no more than 24" O.C.

The slab portion shall be a minimum of 6 inches thick with a number 4 rebar mat with rebar placed in a crisscrossed fashion 12" O.C. Edges shall be finished at a 45 degree angle with a 1 inch face.

GENERATOR/GENERATOR FOUNDATION DRAWINGS

KOHLER CO. CONFIDENTIAL INFORMATION

SEISMIC INSTALLATION REQUIREMENTS:

The following are requirements for seismic installation:

1. The design of post-installed anchors in concrete used for the component anchorage is pre-qualified for seismic applications in accordance with ADI 335.2 and documented in a report by a reputable testing agency. (ex. The Evaluation Service Report issued by the International Code Council)
2. Anchors must be installed to an embedment depth as recommended in the pre-qualification test report as defined in Note 1.
3. Anchors must be installed in minimum 4000 psi compressive strength normal weight concrete. Concrete aggregate must comply with ASTM C33. Installation in structural lightweight concrete is not permitted unless otherwise approved by the structural engineer of record.
4. Anchors must be installed to the torque specification as recommended by the anchor manufacturer to obtain maximum loading.
5. Anchors must be installed in the locations specified the Kohler ADV dimension print.
6. Anchor bolt design loads or specific anchors are specified on seismic Kohler ADV.
7. Anchor plates from Kohler must be installed at each anchor location between anchor head and equipment to tension load distribution.
8. Concrete floor slab and concrete housekeeping pads must be designed and rebar reinforced for seismic applications in accordance with ACI 318.
9. All housekeeping pad thickness must be designed in accordance with pre-qualification test report as defined in Note 1 or a minimum of 1.5x the anchor embedment depth, whichever is largest.
10. All housekeeping pads must be doweled or cast into the building structural floor slab and designed for seismic application per ACI 318 and as approved by the structural engineer of record.
11. Wall mounted equipment must be installed to a rebar reinforced structural concrete wall that is seismically designed and approved by the engineer of record to resist the added seismic loads from the components being anchored to the wall.
12. Floor mounted equipment (with or without housekeeping pad) must be installed to a rebar reinforced structural concrete floor that is seismically designed and approved by the engineer of record to resist the added seismic loads from components being anchored to the floor.
13. When installing to a floor or wall, rebar interference must be considered.
14. Attaching seismic certified equipment to any floor or wall other than those constructed of structural concrete and designed to accept the seismic loads from said equipment is not permitted by this specification and beyond the scope of this certification.
15. Attaching seismic certified equipment to any concrete block walls or cinder block walls is not permitted by this specification and beyond the scope of this certification.
16. For installations upon rooftop, steel damage shall be coordinated with the Structural Engineer of Record.
17. Any curb or concrete pad that supports the RTU unit is beyond the scope of this certification.
18. Anchor locations, size, type and load requirements are specified on the installation drawing. Mounting requirements details such as brand, type, embedment depth, edge spacing, anchor spacing, concrete strength, wall bracing, and special inspection must be outlined and approved by the project Structural Engineer of Record to withstand the seismic anchor loads as defined on the seismic installation drawing. The installing contractor is responsible for the proper installation of all anchors and mounting hardware, observing the mounting requirements outlined by the Engineer of Record. Contact Kohler if a detail Seismic Installation Calculation Package is required.
19. Electrical wiring, piping, duct and other connections to the equipment is the responsibility of the installing contractor. It is necessary that these remain in tact, functional and do not inhibit the functionality of the generator set after a seismic event. Adequate slack shall be allowed cable and piping to allow for motions of set during a seismic event.
20. Concrete pad dimensions are minimum values to satisfy only the anchor bolt requirements. The pad must be designed by the project structural engineer of record.
21. Anchor bolt and concrete recommendations are for the maximum seismic design levels shown. If the specific application has a lower level, thinner concrete or alternate anchors may be acceptable. Consult Kohler.

METRIC CAD FILE

DIMENSIONS IN [] ARE INCH EQUIVALENT

KOHLEER CO.	
2000/2003/2006/2009	
SEISMIC INSTRUCTION	
PRINTED BY: J. COLE	
JULY 2009	
ADV-7555	

PARAMETERS, IBC 2006:

AT GRADE THROUGH ROOF-TOP INSTALLATIONS PERMITTED WHEN:

SDS < OR = 2.0, IP = 1.5, AP = 2.5, RP = 6.0

AT GRADE INSTALLATIONS PERMITTED WHEN:

5SDS > 2.0, IP = 1.5, AP = 2.5, RP = 6.0

PARAMETERS, IBC 2000, 2003:

AT GRADE THROUGH ROOF-TOP INSTALLATIONS PERMITTED WHEN:

SDS < OR = 2.0, IP = 1.5, AP = 1.0, RP = 2.5

AT GRADE INSTALLATIONS PERMITTED WHEN:

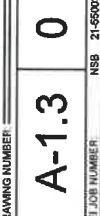
SDS > 2.0, IP = 1.5, AP = 1.0, RP = 2.5

GENERAL SEISMIC INSTALLATION NOTES:

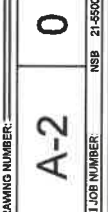
- ANCHORS MUST BE DESIGNED IN ACCORDANCE WITH ACI 308-2-04. SUGGESTED MANUFACTURERS INCLUDE SIMPSON, RAMSET AND MULTI.
- ANCHORS MUST BE INSTALLED TO A MINIMUM EMBEDMENT OF 8X THE ANCHOR DIAMETER.
- ANCHORS MUST BE INSTALLED IN MINIMUM 4000 PSI COMPRESSIVE STRENGTH NORMAL WEIGHT CONCRETE. CONCRETE AGGREGATE MUST COMPLY WITH ASTM C33. INSTALLATION IN STRUCTURAL LIGHTWEIGHT CONCRETE IS NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- ANCHORS MUST BE INSTALLED TO THE REQUIRED TORQUE SPECIFIED BY THE ANCHOR MANUFACTURER TO OBTAIN MAXIMUM LOADING.
- ANCHORS MUST BE INSTALLED TO THE ANCHOR SPACING REQUIRED TO OBTAIN MAXIMUM LOAD AND EDGE DISTANCE REQUIRED TO OBTAIN MAXIMUM LOAD UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- ANCHORS USED FOR SEISMIC INSTALLATION MUST BE DESIGNED AND RATED TO RESIST SEISMIC LOADING IN ACCORDANCE WITH ACI 308-2-04 AND DOCUMENTED IN A REPORT BY A REPUTABLE TESTING AGENCY. (EEX, THE EVALUATION SERVICE AND EQUIPMENT FOR TENSION LOAD DISTRIBUTION)
- WIDE WASHERS MUST BE INSTALLED AT EACH ANCHOR LOCATION BETWEEN THE ANCHOR HEAD AND EQUIPMENT FOR TENSION LOAD DISTRIBUTION
- EQUIPMENT INSTALLED ON A HOUSEKEEPING PAD REQUIRES THE HOUSEKEEPING PAD THICKNESS TO BE AT LEAST 1.5X THE ANCHOR EMBEDMENT DEPTH
- ALL HOUSEKEEPING PADS MUST BE SEISMICALLY DESIGNED AND DOWELLED OR CAST INTO THE BUILDING STRUCTURE AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- REBAR REINFORCING IN THE HOUSEKEEPING PAD IS REQUIRED FOR ALL INSTALLATIONS.
- CONCRETE AND REBAR REINFORCING MUST BE DESIGNED IN ACCORDANCE ACI 308-05.
- WALL MOUNTED EQUIPMENT MUST BE INSTALLED TO A REBAR REINFORCED STRUCTURAL CONCRETE WALL THAT IS SEISMICALLY DESIGNED AND APPROVED BY THE ENGINEER OF RECORD TO RESIST THE ADDED SEISMIC LOADS FROM COMPONENTS BEING ANCHORED TO THE WALL.
- FLOOR MOUNTED EQUIPMENT (WITH OR WITHOUT A HOUSEKEEPING PAD) MUST BE INSTALLED TO A REBAR REINFORCED STRUCTURAL CONCRETE FLOOR THAT IS SEISMICALLY DESIGNED AND APPROVED BY THE ENGINEER OF RECORD TO RESIST THE ADDED SEISMIC LOADS FROM COMPONENTS BEING ANCHORED TO THE FLOOR.
- WHEN INSTALLING TO A FLOOR OR WALL, REBAR INTERFERENCE MUST BE CONSIDERED.
- EQUIPMENT ATTACHED TO ANY STRUCTURAL FLOOR OR WALL OTHER THAN THOSE CONSTRUCTED OF STRUCTURAL CONCRETE AND DESIGNED TO ACCEPT THE SEISMIC LOADS FROM THE MOUNTED EQUIPMENT ARE BEYOND THE SCOPE OF THIS SPECIFICATION.
- INSTALLATION TO LIGHT WEIGHT CONCRETE OVER STEEL DECKING IS BEYOND THE SCOPE OF THIS SPECIFICATION.
- INSTALLATION TO CONCRETE BLOCK OR CINDER BLOCK WALLS IS BEYOND THE SCOPE OF THIS SPECIFICATION.

REV	DATE	ON COMPOSITE DWGS, SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED: 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE: X.XX ± 0.25 X.X ± 1.0 X ± 1.5 ANGLES ± 0° 30' MAX.	KOHLER CO. POWER SYSTEMS, KOHLER WI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	METRIC	PRO-E
-	1-16-08	NEW DRAWING (83609)	WSD				
				THIRD ANGLE PROJECTION	TITLE	SPECIFICATION PRINT, SEISMIC INSTALLATION	
				APPROVALS	DATE		
				DRAWN	WSD 1-16-08	SCALE	
				CHECKED	WSD 1-16-08	DWG NO	
				APPROVED	MTL 1-16-08	SHEET	
						ADV-7456	
						B	

Harmoni Towers Exhibits

EQUIPMENT PLAN
22x34 SCALE: 1/2" = 1'-0"

11x17 SCALE: 1/4" = 1'-0"



22x34 SCALE: 1/8" = 1'-0"	1
SOUTH ELEVATION	

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