

# REQUEST FOR PROPOSAL

“THE SOUTHWEST TELEHEALTH ACCESS GRID”

Hardrock Council on Substance Abuse, Inc.  
Navajo Nation

RURAL HEALTHCARE PILOT PROJECT  
FUNDING YEAR 2009  
SWTAG RFP 012  
NETWORK INFRASTRUCTURE  
PROCUREMENT

Revised 12.20.11

**Hardrock Council on Substance Abuse, Inc.  
17 North off State Route 264  
P.O. Box 26  
Kylotsmovi, Arizona 86039  
Attn: Larry Yazzie, President (HCOSA) AND Danny Kescole, BHS (HCOSA)**

## **i. General Information**

i.1. Introduction. The Southwest Telehealth Access Grid (SWTAG) Project is one of the Federal Communication Commission's (FCC) Rural Healthcare Pilot Programs (RHCPP). It is an integrated interstate network of networks built upon the extensive experience of key participants in rural telemedicine and rural healthcare in New Mexico, Arizona and the Southwest Indian Health Service (IHS) Telehealth Consortium and associated Tribes. This Grid creates the platform to more effectively share, distribute and coordinate telemedicine clinical services, educational and training programs among the healthcare provider organizations across the region, along with their associated human resources, thus more easily and effectively filling the gaps in meeting the health care needs of the rural communities throughout the network. Through Internet2 (I2) and the National Lambda Rail (NLR), this regional TAG network of networks, which is greatly facilitated and enhanced by the current USF Rural Healthcare Pilot Program, will enable our participating hospitals, clinics, and educational institutions to partner with peers throughout the United States to improve healthcare delivery and education via telemedicine.

Hardrock Council on Substance Abuse, Inc. (HCOSA) is seeking a 20-30mpbs point to point dedicated circuit with Ethernet handoff, preferably non bonded broadband connectivity. This bandwidth is necessary to support the Electronic Health Record. As these systems are implemented and mature, the need for reliable, secure and robust broadband telecommunications connections becomes critical.

i.2. The SWTAG, Hardrock Council on Substance Abuse, Inc., and its membership will construct an interconnected broadband network that links providers in the aforementioned communities. Funding provided by the Federal Communications Commission (FCC) under the Commission's order 07-198 ('Rural Healthcare Support Mechanism') of 19 November 2007, as well as matching and participatory funds as defined in the Order and provided by the Partners and their member sites and organizations will be utilized to construct this network.

i.3. Overview. The Hardrock Council on Substance Abuse, Inc. FY09 project is designed to augment and enhance the existing wide-area networks of its Members. Hardrock Council on Substance Abuse, Inc. is soliciting bids from vendors, suppliers and service providers to provide the connectivity (carrier-based broadband, cable, and dedicated fiber optic cable installations) and any required edge network electronics and devices.

i.4. Bidders are asked to provide proposals based on the accompanying site, routing, and technical information. Although consolidated bids for connectivity, hardware, and services will be considered, vendors are encouraged to submit bids for technological, logical, or geographical segments of the project. Thus, Hardrock Council on Substance Abuse, Inc. will entertain three types of bids under this RFP.

i.5. Consolidated – One inclusive price to provide connectivity, equipment and carrier services for any or all of the sites, areas, or regions according the specifications set forth in this RFP.

i.6. The RFP process will allow Hardrock Council on Substance Abuse, Inc. to receive the competitive offers for network development from independent telephone companies, local exchange carriers, cable operators, hardware distributors and manufacturers, cabling and construction contractors, and others. These competitive offers will be judged by Hardrock Council on Substance Abuse, Inc. according to the criteria set forth within Section 2.0, and its subcomponents, of this document.

## 1.0 Administrative and Procedural Information

1.1. The Rural Health Care Pilot Program (RHCPP) of the Universal Service Fund, which is administered by the Universal Service Administrative Company (USAC), is a support program authorized by Congress and designed by the Federal Communications Commission (FCC) to encourage the development of rural broadband networks to provide advanced healthcare telecommunications capabilities and services to rural health care providers (HCPs).

1.2. Notice: This project is subject to the USAC procurement rules. Vendors must meet all USAC requirements. The SWTAG will submit a USAC Form 465 to USAC who will review the documentation and will post the RFP on the USAC website. More information on bidding and posting rules can be found at <http://www.usac.org/rhc-pilot-program/tools/search-postings-2009.aspx>.

1.3. The following considerations apply to the proposal submission / review process:

1.3.1. Bidders may view Rural Health Care Pilot Participants FCC Form 465 and Project Scope Document postings at <http://www.usac.org/rhc-pilot-program/tools/search-postings-2009.aspx>.

**This site shows the official RFP posting date and the allowable contract date.**

1.3.2. The SWTAG, in partnership with the University of New Mexico Purchasing Department, has established a website for the convenience of bidders. All RFP materials and associated documents will be posted on the UNM e-Procurement site, LoboSource. Note: While registration is suggested (via the Supplier Registration link), it is not required and SWTAG bidders may access information directly through the [Current Bid Opportunities](#) link. (Please note: LoboSource is not compatible with Internet Explorer 7 and above. You must use IE 6 or Mozilla Firefox.)

**The LoboSource (SWTAG) bidder site may be reached at <http://www.unm.edu/~purch/lobosource.html>**

1.3.3. Questions from Bidders. It is the responsibility of the bidder to inquire about any condition of this RFP that is not understood. Queries from bidders will be accepted via e-mail only, as described herein. Questions to individual Hardrock Council on Substance Abuse, Inc. or SWTAG staff members via telephone/telefacsimile, e-mail or postal mail, will not be entertained.

All communication and inquiries, unless otherwise noted, must be directed to Denise Dion at the University of New Mexico Center for Telehealth. Bidders wishing to submit questions or request technical clarifications concerning this Hardrock Council on Substance Abuse, Inc. RFP should send e-mail inquiries to Denise Dion at [dmdion@salud.unm.edu](mailto:dmdion@salud.unm.edu) with a copy to Tom Weeks at UNM Purchasing ([tomweeks@unm.edu](mailto:tomweeks@unm.edu))

Responses to all questions submitted will receive written responses as soon as possible and will constitute official communications from the Hardrock Council on Substance Abuse, Inc. project. Note: any and all question submittals and requests for clarification must be provided in writing.

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Responses to inquiries, if they change or clarify the RFP in a substantial manner, will be posted/distributed as a written addendum to this RFP. Any communications with SWTAG or Hardrock Council on Substance Abuse, Inc. staff members other than as noted above should not be considered authoritative, are not binding on SWTAG or Hardrock Council on Substance Abuse, Inc., and may be disavowed without notice or explanation.

1.3.4. In the event it becomes necessary for Hardrock Council on Substance Abuse, Inc. to amend, add to or delete any part of this RFP, the amendment will be posted on the USAC web site, as required by the Order and by the USAC-mandated bidding procedures, and will additionally be posted on the SWTAG bidder site.

1.3.5. Bid proposals must be received at the Hardrock Council on Substance Abuse, Inc. office no later than 28 calendar days from the date of posting of this RFP on the USAC website. This receipt deadline requirement is a mandatory requirement and is not subject to waiver by SWTAG or Hardrock Council on Substance Abuse, Inc... Accordingly, no bid proposals will be accepted after the date and time specified. A late bid proposal will be returned unopened to the bidder.

1.3.6. No bid proposal will be accepted by telephone, electronic mail or facsimile. The proposal receipt deadline is for actual receipt in the Hardrock Council on Substance Abuse, Inc. delivery location shown in Section 1.3.7. Delivery, whether via postal mail or other service, must be arranged to assure arrival before the deadline set forth above.

1.3.7. Original hard copy bid proposals and one (1) electronic CD copy bid proposal must be mailed or otherwise physically delivered to the following addresses:

Hardrock Council on Substance Abuse, Inc.  
17 North off State Route 264  
P.O. Box 26  
Kykotsmovi, Arizona 86039  
Attn: Larry Yazzie, President (HCOSA) AND Danny Kescole, BHS (HCOSA)

UNM Center for Telehealth  
Southwest Telehealth Access Grid Project  
1005 Columbia NE  
Albuquerque, NM 87106  
Attn: Denise Dion

In addition, one hard copy one (1) electronic CD copy bid proposal of the proposal must be delivered to the University of New Mexico Purchasing Office, 1700 Lomas NE, Suite 2600, Albuquerque, NM 87131 (Attn: Tom Weeks).

It is strongly suggested that certified delivery services be used to verify the receipt of bids by Hardrock Council on Substance Abuse, Inc.

1.3.8. The bid proposals and the evaluation documents created by Hardrock Council on Substance Abuse, Inc. will remain confidential until Hardrock Council on Substance Abuse, Inc. has evaluated all of the compliant bid proposals submitted in response to this RFP and the selection process is complete. Once the evaluation and selection process is complete, all information, except that classified as confidential, will become public information will be available for inspection on the SWTAG web site.

1.3.9. Award information will be posted electronically on the SWTAG web site, LoboSource through the [Awarded Bid Information](#) link.

#### 1.4. Bid Proposal General Requirements

1.4.1. Failure to comply with or supply any and all information requested to accompany bid proposals may be cause for rejection of the proposal as non-compliant.

1.4.2. Bidder assumes all costs of preparation of the bid. The University of New Mexico, SWTAG, and Hardrock Council on Substance Abuse, Inc. and any of their employees or officers shall not be held liable for any expenses incurred by any bidder responding to this RFP for expenses to prepare, deliver the proposal, or to attend any mandatory pre-bid meeting or oral presentations.

1.4.3. All bid proposals must be valid for a period of 90 days from the date of submission.

1.4.4. By submitting a bid proposal the vendor agrees to the terms and conditions contained within this RFP.

## **2.0 Proposal Evaluation**

### **2.1. Proposal and Contract Terms (15 possible points)**

2.1.1. The primary objective of this RFP, and any subsequent contract, is to obtain the most feasible and cost-effective installation with the required standards for product and service delivery. Bidder proposals will be evaluated for compliance with all instructions, specifications, and the terms and conditions.

2.1.2. Vendor's response to the RFP demonstrates a clear and complete understanding of the goals of the overall project.

2.1.3. Bidder's proposition is for providing the consolidated project needs – i.e., proposals that combine connectivity, hardware, and services.

2.1.4. The above notwithstanding, vendors may bid for connectivity or network edge hardware exclusively.

2.1.5. Connectivity services – Bids are provided for 1-year, 2-year, 3-year and 5-year duration (except where noted in the detail site listing).

2.1.6. Hardware service and maintenance – Bids are provided for 1-year, 2-year, 3-year and 5-year duration.

2.1.7. Service Level Agreement and/or Performance guarantees are provided, including uptime and response time guarantees.

2.1.8. Proposed system testing and acceptance provisions will be required on all bid proposals. Hardrock Council on Substance Abuse, Inc. reserves the right to work in concert with vendors to develop appropriate testing and acceptance criteria for specific installations or configurations, to be defined and accepted by both parties prior to contract initiation.

2.1.9. Any contract resulting from this RFP will contain specific deliverable items acceptance provisions.

2.1.10. Bid proposals will contain acknowledgement of, and provisions for providing, USAC invoicing requirements and formats. Bidder will conform to invoicing procedures and processes as promulgated by USAC.

2.1.11. Bidder agrees to provide a project manager or other individual who will be the primary contact for all dealing with Hardrock Council on Substance Abuse, Inc...

2.1.12. The successful Contractor will be required to provide full documentation upon completion.

## **2.2. Design Compatibility (20 possible points)**

2.2.1. Offers will be evaluated and scored based upon how well the bidder describes/responds to the following:

### 2.2.2. Connectivity Services

2.2.2.1. Bidder's proposal accounts for existing network design within the Member network(s) to which its bid applies, and does not require re-grooming or reconfiguration of circuits or transports not directly impacted by the project. (This requirement does not include the decommissioning of existing circuits being replaced by new by Hardrock Council on Substance Abuse, Inc.)

### 2.2.3. Hardware Components

2.2.3.1. Bidder's proposal for hardware meets the stated requirements of the RFP in all respects without substitution or alteration of required functionality.

2.2.3.2. Bidder's proposal accounts for existing hardware components and network logical and physical topology, and does not impose restrictions or reconfiguration requirements to accommodate specifications of proposed equipment that do not meet RFP requirements. (This requirement does not include the reconfiguration or decommissioning of existing equipment being replaced by new Hardrock Council on Substance Abuse, Inc. [No existing equipment])

2.2.3.3. Bidder's proposal includes maintenance and support contract options.

2.2.3.4. Bidder's proposal includes only those installation and configuration services specifically requested in the RFP.

### **2.3. Implementation Timeframe (10 possible points)**

2.3.1. Offers will be evaluated and scored based upon how well the bidder describes/responds to the following:

2.3.2. Implementation timeline must begin no later than 30 days from the date of award notification.

2.3.3. Bid proposals must include a project plan and timeline detailing milestones and overall schedule. Critical path items and potential delay circumstances must be clearly identified.

### **2.4. Provider / Vendor Qualifications (15 possible points)**

2.4.1. Offers will be evaluated and scored based upon how well the bidder describes/responds to the following:

2.4.2. Bidder possesses the ability to provide proposed services or products in the manner and within the timeline(s) specified in the RFP, as determined by Hardrock Council on Substance Abuse, Inc., based on:

2.4.2.1. Describe the prior experience and qualifications related to accomplishing the work as requested. Bidder must provide a current Service Provider Identification Number (SPIN) in their proposal.

2.4.2.2. References: provide a list of references that identifies services provided on contractors for similar work. Include telephone numbers and mailing addresses of individuals who can attest to the Bidder's experience and qualifications of the services requested.

2.4.2.3. Reputation in the industry. Provide background regarding the Bidder, including: length of time in business, other activities performed by the Bidder, and number of individuals on staff (including owners, partners, and employees).



2.4.2.4. Contractor's history of reliability and customer service based on past performance in the experience of one or more of the Hardrock Council on Substance Abuse, Inc. Members; and

2.4.2.5. Objective qualifications of key staff and proposed project personnel. Describe the experience and qualifications for the specific individuals who will provide the work.

## **2.5. Cost (30 possible points)**

2.5.1. Offers will be evaluated and scored based upon how well the bidder describes/responds to the following:

2.5.2. Hardrock Council on Substance Abuse, Inc. will select the most cost effective bid or bids presented, whether that is a consolidated bid for all sites in the Hardrock Council on Substance Abuse, Inc. consortium, as defined herein, all sites within a Member's region, or site-by-site bids for connectivity or hardware.

2.5.3. All costs may not qualify for RHCPP funding, so it is critical that accurate, detailed cost information be provided for all portions of the bid proposal. Please indicate on your proposal that this is understood.

2.5.4. Bid proposals must identify all costs associated with the proposed solution, including design, installation, configuration, maintenance, and monthly recurring costs.

Specifically, for connectivity proposals include costs for:

2.5.4.1. Implementation fees, including one-time connection or provisioning charges, hardware costs.

2.5.4.2. Monthly recurring charges amortized over the period of the proposed contract, for transmission at the proposed bandwidth, port charges, transport charges, taxes, fees, and assessments.

2.5.4.3. Contract termination provisions, including specific penalties, if any, for early termination by Hardrock Council on Substance Abuse, Inc...

Specifically, for hardware and fiber installation proposals include costs for:

2.5.4.4. Purchase price for each unit. Bundled pricing may be cited, but individual components must be identified and detailed pricing provided.

2.5.4.5. Shipping costs for each unit or shipment.

2.5.4.6. Design, engineering, configuration and installation charges.

2.5.4.7. Taxes, permits, fees, licenses.

2.5.4.8. Maintenance and/or support charges for the proposed contract period.

## **2.6. Proposal Guidelines (10 possible points)**

2.6.1. Bidders are to organize proposals in the order stated in this section. In responding to this RFP, Bidders are encouraged to provide additional information if Bidder believes that information to be relevant. Responses should provide the details required and not solely a statement of acknowledgment. The submission of proposals must be organized to include, but not be limited to the following information:

2.6.1.1. Name, address, e-mail address, telephone numbers, and facsimile number of the Bidder.

2.6.1.2. Name, title, e-mail address, and telephone number of the primary contact of the Bidder.

2.6.1.3. A signature of the Bidder or of an officer/employee who certifies that he/she has the authority to make the bid.

2.6.1.4. A statement of the Bidder, if awarded the contract, will comply with the contract Terms and Conditions as set forth in this RFP. USAC procedures and processes must be met. Please provide a statement containing acknowledgement of, and provisions for providing, USAC invoicing requirements and formats.

2.6.1.5. A detailed description of the work proposed in response to this RFP. The submission must include, but is not limited to, addressing all requirements and each question contained within Section 2.1, Section 2.2, and Section 3.0 and their subparagraphs.

2.6.1.6. The proposed implementation timeline and project plan, per Section 2.3 and its subparagraphs.

2.6.1.7. A detailed cost proposal for providing the services requested, per Section 2.5 and its subparagraphs.

2.6.1.8. Provide evidence of the vendor's prior experience and qualifications related to accomplishing the requested work. Address each item in Section 2.4 and its subparagraphs.

2.6.2. Provide a statement with the dates for which this offer is valid.

## **2.7. Evaluation and Decision**

2.7.1. The selection will be based on all factors indicated in this RFP, and may not go to the lowest bidder if cost is outweighed by a combination of other features in the winning vendor's bid. Appendix C: SWTAG FCC Pilot Program Vendor Evaluation – Hardrock Council on Substance Abuse, Inc., on pp:24 & 25 , indicates the evaluation criteria and scoring.

2.7.2. Hardrock Council on Substance Abuse, Inc. reserves the right to select bid proposals which, in the sole judgment of Hardrock Council on Substance Abuse, Inc., most nearly conform to the specifications set forth herein, will best serve the needs of Hardrock Council on Substance Abuse, Inc. and its Members and participants, and provide the most cost-effective means for producing those results.

2.7.3. Hardrock Council on Substance Abuse, Inc. reserves the right to waive any and all issues of form or presentation in considering bid presentations for acceptance or rejection, if, in the sole opinion of Hardrock Council on Substance Abuse, Inc., such waiver is in the best interests of the project.

2.7.4. Hardrock Council on Substance Abuse, Inc. is not responsible for any costs incurred by a vendor related to the preparation or delivery of the bid proposal, or any other activities carried out by the vendor, as it relates to this RFP.

2.7.5. Hardrock Council on Substance Abuse, Inc. is not obligated to accept any proposal received in response to this RFP. In particular, Hardrock Council on Substance Abuse, Inc. may accept received proposals in whole or in part, or it may reject all proposals received.

2.7.6. Changes in applicable laws and rules may affect the award process or any resulting contracts. Vendors are responsible for ascertaining pertinent legal requirements and restrictions. Vendors are encouraged to visit the official Federal websites pertaining to the Pilot Project, at <http://www.lifelinesupport.org/rhc-pilot-program/> and <http://www.fcc.gov/cgb/rural/rhcp.html>.

2.7.7. The selection decisions made by Hardrock Council on Substance Abuse, Inc. and reported to SWTAG and USAC under this RFP are final, and appeals or re-submissions will not be considered.

## **3.0 Site, Routing, and Technical Information**

3.1. The Hardrock Council on Substance Abuse, Inc. project consists of the addition and enhancement of broadband connectivity and concomitant hardware to five (5) sites in the state of Arizona in support of its participation in the SWTAG and that project's selection as a participant on the FCC Rural Healthcare Pilot Program.

3.2. The project requires broadband connectivity, fiber optic cable installation and site-based network routing hardware. The requirements for this RFP are grouped by Member to enable vendors to most effectively evaluate the site(s) for which to submit proposal(s).

3.3. Bidders are informed that all of the sites seeking connectivity under this RFP do not have any existing circuits. All connectivity bids solicited under this RFP are for newly-provisioned circuits. No bid may include any change, updating, or “re-grooming” of any circuit currently being funded by the Rural Health Care Program. Further, installation timing of new circuit installations must be coordinated such that existing circuits are decommissioned as the new, RHCPP-supported circuits are installed. Bids failing to meet these requirements will be rejected without further consideration.

**3.4. HCOSA Health Station Main Office** – This local health department Rural Provider will need to acquire both data and internet connectivity to support mandated Electronic Health Record, Telemedicine, and Medical Imaging initiatives. The Internet bandwidth sought is 20 – 30mbps. The data bandwidth also needs to be 20-30mbps dedicated point to point circuit with Ethernet handoff.

3.4.1. All broadband links specified are to provide transport between the indicated site and the Tuba City Regional Health Care Corp. switching system currently in use for connecting to the Tuba City Regional Health Care Corp in Tuba City, AZ. See Appendix A, page 15 for the Site Connectivity diagram.

The Tuba City Regional Health Care Corp. system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

3.4.2. The requirement to connect to the existing Tuba City Health Care Corp. system notwithstanding, bidders are encouraged to propose specific designs for providing the backhaul services and connectivity needed to accomplish that goal.

3.4.3. Connectivity Requirements – Broadband Links

3.4.3.1. All circuits are to be fully provisioned from end-point to core location. Physical facility installation to the demarcation point at each site affected must be included in the bid.

3.4.3.2. Transport: To be determined by vendor, but must be transparent to layer-3 and higher protocols, including Tuba City Regional Health Care system.

3.4.3.3. Bandwidth: 20-30 mbps minimum between sites and the Tuba City Regional Health Care Corp. system, unless otherwise specified in the detail site listing.

3.4.3.4. Latency: < 60ms; (between site and core routers in Tuba City Regional Health Care Corp.

3.4.3.5. Stability (video): jitter: good 0 – 20 ms, acceptable 20 – 50ms; packet loss good 0 – 0.5%, acceptable 0.5 – 1.5%

3.4.3.6. Site connectivity physical circuit redundancy should be proposed where the site's location and circumstances provide the capability of effectively providing redundant entry points to the facility, and the appropriate network hardware needed to manage the redundant circuits.

3.4.3.7. Site connectivity backhaul redundancy and resiliency should be proposed when possible, to provide separate physical and logical paths for redundant circuits. Resiliency for backhaul circuit transport is required, with provisioning to take into account that need.

3.4.3.8. Physical facilities and provisioning to the demarcation point of each site must be included in the proposal, where needed.

#### 3.4.4. Connectivity Requirements – Dedicated Fiber Links

3.4.4.1. Inter-building dedicated external fiber optic cable installations are solicited for five (5) locations as specified in Appendix B: Site Detail Specifications.

3.4.4.2. End-to-end fiber optic cable installation between the facility-designated telecommunications demarcation point in both sites of each site pair is required. Routing and installation particulars are to be determined by the bidder in accordance with the specifications below, and must be described in the bid proposal.

3.4.4.3. Dedicated fiber installation bids are to include all labor and materials needed for the installation of the specified fiber connectivity, including site survey, engineering, fiber installation, and termination.

3.4.4.4. Documentation, including final site survey, engineering drawings, fiber installation specifications and 'as built' drawings, is to be provided in a timely fashion upon the acceptance on an installation bid by Hardrock Council on Substance Abuse, Inc.

3.4.4.5. The vendor will obtain permits from departments and/or agencies of cities, state, county, and federal government, railroads, or other entities which provide for the placement of facilities within their respective rights of way.

3.4.4.6. The vendor will provide easements for construction on private lands, as needed. Any and all easements must be approved by Hardrock Council on Substance Abuse, Inc. prior to implementation. It is preferred that all easements be one time, advance payments with no recurring charges.

3.4.4.7. All external fiber installation will be of cable-in-duct construction, using twelve-strand (minimum) single-mode fiber optic cable. Bids for direct-buried cables and/or multi-mode fiber will not be considered.

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3.4.4.8. All fiber installation will be installed and tested in accordance with industry-standard practices, including but not limited to the standards promulgated in the National Electrical Safety Code IEEE C-2), NFPA 70, TIA-590-A, and TIA-758-A, all as amended. Installation will meet all local building and electrical codes.

3.4.4.9. One hundred percent (100%) of all fiber optic media must be tested in accordance with TIA/EIA-568-B.1, TIA/EIA-568-B.3, and TIA-526-7 (single mode). OTDR instrument must be calibrated to show anomalies of .02dB minimum, with photographic or digitized traces provided to the Hardrock Council on Substance Abuse, Inc. site contact.

### 3.4.5. Edge Hardware (Router) Requirements

3.4.5.1. Routers are required for most sites as specified in the detailed site listing, Appendix B.

3.4.5.2. Routers must be compatible with existing network hardware in the Hardrock Council on Substance Abuse, Inc. region on a functional, configuration, and physical level.

3.4.5.3. General configuration information for the router type is specified in Appendix B: Site Detail Specifications. These configurations are based on Cisco Systems products, but Cisco Systems-brand hardware is not required. Proposals offering alternate brands and configurations are acceptable, with due consideration of the requirements for compatibility and interoperability set forth above and in Section 2.0.

3.4.6. Point to point connection to Joe/Betty Fellowship Hall to be installed at the HCOSA Health Station Main Office. Need to acquire both data and internet connectivity to supported mandated electronic health record, Telemedicine and Medical imaging initiatives. The internet bandwidth sought is 20-30mbps. The data bandwidth also needs to be 20-30mbs dedicated point to point circuit with Ethernet handoff.

3.4.6.1 All broadband links specified are to provide transport between the indicated site and the Tuba City Regional Health Care Corp in Tuba City, AZ. via existing Tuba City Regional Health Care Corp or Ethernet network. See Appendix A, page 15 for the Site Connectivity diagram. The Tuba City Regional Health Care Corp. system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

The Ethernet system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

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3.4.6.2. The requirement to connect to the existing Tuba City Regional Health Care Corp system notwithstanding, bidders are encouraged to propose specific designs for providing the backhaul services and connectivity needed to accomplish that goal.

3.4.7 Point to point connection to Percy Deal Health Station to be installed at the HCOSA Health Station Main Office. Need to acquire both data and internet connectivity to supported mandated electronic health record, Telemedicine and Medical imaging initiatives. The internet bandwidth sought is 20-30mbps. The data bandwidth also needs to be 20-30mbs dedicated point to point circuit with Ethernet handoff.

3.4.7.1 All broadband links specified are to provide transport between the indicated site and the Tuba City Regional Health Care Corp in Tuba City, AZ. via existing Tuba City Regional Health Care Corp or Ethernet network. See Appendix A, page 15 for the Site Connectivity diagram. The Tuba City Regional Health Care Corp. system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

The Ethernet system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

3.4.7.2 The requirement to connect to the existing Tuba City Regional Health Care Corp system notwithstanding, bidders are encouraged to propose specific designs for providing the backhaul services and connectivity needed to accomplish that goal.

**3.5. Rocky Ridge Health Station-**This Rural Provider will need to acquire both data and internet connectivity to support mandated Electronic Health Record, Telemedicine, and Medical Imaging initiatives. The Internet bandwidth sought is 20 – 30mbps. The data bandwidth also needs to be 20-30mbps dedicated point to point circuit with Ethernet handoff.

3.5.1. All broadband links specified are to provide transport between the indicated site and the Tuba City Regional Health Care Corp in Tuba City, AZ. via existing Tuba City Regional Health Care Corp or Ethernet network. See Appendix A, page 15 for the Site Connectivity diagram. The Tuba City Regional Health Care Corp. system is currently maintained by:

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WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

The Ethernet system is currently maintained by:

WECOM, Inc.  
2332 Kingman Ave  
Kingman, AZ., 86401

3.5.2. The requirement to connect to the existing Tuba City Regional Health Care Corp system notwithstanding, bidders are encouraged to propose specific designs for providing the backhaul services and connectivity needed to accomplish that goal.

3.5.3. Connectivity requirements:

3.5.3.1. All circuits are to be fully provisioned from end-point to core location. Physical facility installation to the demarcation point at each site affected must be included in the bid.

3.5.3.2. Transport: To be determined by vendor, but must be transparent to layer-3 and higher protocols, including Tuba City Regional Health Care Corp.

3.5.3.3. Bandwidth: As specified in the detailed site listing.

3.5.3.4. Latency: < 60ms; (between site and core routers in Tuba City, AZ.)

3.5.3.5. Stability (video): jitter: good 0 – 20 ms, acceptable 20 – 50ms; packet loss good 0 – 0.5%, acceptable 0.5 – 1.5%

3.5.3.6. Site connectivity physical circuit redundancy should be proposed where the site's location and circumstances provide the capability of effectively providing redundant entry points to the facility, and the appropriate network hardware needed to manage the redundant circuits.

3.5.3.7. Site connectivity backhaul redundancy and resiliency should be proposed when possible, to provide separate physical and logical paths for redundant circuits. Resiliency for backhaul circuit transport is required, with provisioning to take into account that need.



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3.5.3.8. Physical facilities and provisioning to the demarcation point of each site must be included in the proposal, where needed.

#### 3.5.4. Edge Hardware (Router) Requirements

3.5.4.1. Routers are required for each site as specified in the detail site listing, Section 4.0

3.5.4.2. Routers must be compatible with existing network hardware in the Hardrock Council on Substance Abuse, Inc. region on a functional, configuration, and physical level.

3.5.4.3. General configuration information for the router type is specified Appendix B: Site Detail Specifications. These configurations are based on Cisco Systems products, but Cisco Systems-brand hardware is not required. Proposals offering alternate brands and configurations are acceptable, with due consideration of the requirements for compatibility and interoperability set forth above and in Section 2.0.

## **Appendix A: Detail Site Specifications**

The following pages provide information for each site for which bids are solicited, organized by Member:

**HCOSA Health Station Main Office:** page 19

**Rocky Ridge Health Station:** page 20

Each specification sheet provides site physical and contact information, as well as connectivity and hardware requirements.

**Connectivity:** Specified in terms of the desired transport type (Ethernet or TDM (DS1/DS3)). Multiple TDM circuits, if specified, are to be 'bonded' to provide aggregate bandwidth. Equivalent bandwidth of alternate types may be proposed, provided all requirements of Section 3.0 herein are met.

**Hardware:** Specified in terms of the Cisco Systems type/model desired for the primary router(s) to provide OSI Layer 3 'edge' connectivity for the circuits. Other brands or systems may be proposed, but bidders are cautioned that the compatibility requirements of Section 3.0 herein must be met.

**#1 Facility : HCOSA Health Station Main Office**

**17 mi. North of St Rt. 264 (1/4 mile S of N41 on Hardrock  
Kykotsmovi, AZ., 86039**

**\*This is an extremely remote area on the S.W. Region of the Navajo Nation. No conventional address scheme available.**

**Facility Phone: 928-725-3504  
Facility Contact: Danny Kescole  
Phone 928-725-3504**

**Funding year: FY3-2009  
Connectivity: 50 MB Ethernet or Bandwidth Equivalent See RFP Section 3.4 for routing and connectivity requirements**

**Hardware: Cisco 2821 Configuration or Equivalent Specifications:**

Quantity	Product	Description
1	C2821-VSEC-SRST/K9	2821 VSEC Bundle w/PVDM2-32,FL-SRST-48,Adv IP Serv,128F/256D
1	S28NRAISK9-12415T	Cisco 2800 AISK9-AISK9 FEAT SET FACTORY UPG FOR BUNDLES
1	MEM2821-256U512D	256 to 512MB DDR DRAM factory upgrade for the Cisco 2821
1	MAX-28/38-FLASH-BN	64 to 256 MB CF Factory Upgrade and 256MB USB Flash Token for 2800/3800
1	PVDM2-32U64	PVDM2 32-channel to 64-channel factory upgrade
1	PWR-2821-51-AC-IP	Cisco 2821/51 AC/IP power supply
1	CAB-AC	Power Cord,110V
1	ROUTER-SDM	Device manager for routers
1	MEMUSB-256FT	256MB USB Flash Token for Cisco 1800/2800/3800 series
1	FL-SRST-MEDIUM	Feat Lic Survivable Remote Site Telephony up to 48 phones
1	MEM2800-256D-INC	256MB DDR DRAM Memory factory default for the Cisco 2800
3	CON-SNT-2821SRST	SNT 8X5XNBD + SAU 2821 Voice Bundle

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**# 2 Facility: Rocky Ridge Health Station**

**N41 and Dinnebito Road, located 7 miles West of Hardrock Chapter Road and N41**

**\*This is an extremely remote area on the S.W. Region of the Navajo Nation. No conventional address scheme available.**

**Facility Phone: 928-289-3504**

**Facility Contact: Danny Kescole  
Phone 928-289-3504**

**Funding year: FY3-2009**

**Connectivity: 30Mbps or Bandwidth Equivalent See RFP Section 3.5 for routing and connectivity requirements**

**Hardware: Cisco Wireless Access Point, as specified**

Quantity	Product	Description
1	AIR-AP1242AG-A-9	Access Point
1	AIR-ANT5160V-R	External Antenna
1	AIR-CAB020LL-R	Cable
1	AIR-ACC245LA-R	Lightning Arrestor
1	AIR-PWRINJ3	Power Injector
1	AIR-PWR-A	Power Supply

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## **Appendix B: Site Connectivity Drawings**

The following drawings provide a graphical depiction of the connectivity solicited by this RFP. The drawings are schematic in nature and are intended to provide an overview only. In the event of a discrepancy between the drawings and the Detail Site Specifications or any written description or specification in this RFP, the written version shall be considered to be authoritative.

