

STATE OF NORTH DAKOTA



**Information Technology Department
Telecommunications Division
600 E Boulevard Ave, Dept 112
Bismarck, ND 58505-0100**



Request For Proposal (RFP)

RFP Title: *STAGEnet Transport Services*

RFP Number: 112-0502

Date of Issue: **July 8, 2005**

Purpose of RFP: To rebid the current statewide network. This is one of three RFP's, which focuses on the Backbone, Network Access, and Internet Access environments. The other RFP's to be released are for equipment and wireless voice and data.

Offerors are not required to return this form.

Procurement Officer: Brandy Peterson

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SECTION ONE INTRODUCTION AND INSTRUCTIONS

1.01

Purpose of the RFP

This Request for Proposal (RFP) is issued by the Information Technology Department (ITD) of the State of North Dakota (hereinafter referred to as the State) and is for Transport services, including Backbone, Network Access and Internet Access. The State of North Dakota is increasingly dependent on its telecommunications infrastructure (STAGEnet) to conduct the business of the State and for educational requirements. The State expects both application and capacity requirements to continually increase, making extremely reliable access essential to the business and educational needs of the state. This section defines the requirements that Offerors will need to include in their proposals.

1.02

Contact Person, Telephone, Fax, E-mail

The procurement officer is the point of contact for this RFP. All vendor communications regarding this RFP must be directed to the procurement officer. Unauthorized contact regarding the RFP with other State employees of the purchasing agency may result in the vendor being disqualified, and the vendor may also be suspended or disbarred from the state bidders list.

PROCUREMENT OFFICER: Brandy Peterson

PHONE: 701-328-1002

FAX: 701-328-3000

TTY Users call: 1-800-366-6888

E-MAIL: bpeterson@state.nd.us

1.03

RFP Schedule of Events

This schedule of events represents the State's best estimate of the schedule that will be followed for this RFP. If a component of this schedule, such as the deadline for receipt of proposals, is delayed, the rest of the schedule will be shifted by the same number of days.

The approximate RFP schedule is as follows:

- RFP Issued: **8 July 2005**
- Letters of Interest are due **15 July 2005**
- Bidder's Conference **22 July 2005**
- Deadline for receipt of questions and objections related to the RFP: **25 July 2005**
- Deadline for answers to questions and objections related to RFP: **3 August 2005**
- Proposals to RFP due: **19 August 2005**
- Oral Presentations **25-26 August 2005** (if necessary)
- Proposal Evaluation Committee evaluation completed by approximately: **1 September 2005**
- State issues Notice of Intent to Award a Contract approximately: **2 September 2005**
- State issues contract approximately: **21 October 2005**
- Contract start date: **21 October 2005**
- Service start date: **30 June 2006**

1.04

Return Mailing Address and Deadline for Receipt of Proposals

Offerors must submit one (1) original (marked 'Original') and nine (9) copies of the proposal in a sealed envelope or package.

Offerors must submit an electronic copy of their proposal on a CD-ROM.

Cost proposals are to be submitted in a separate sealed envelope or package, clearly labeled "cost proposal."

Envelopes or packages containing proposals must be clearly addressed as described below to ensure proper delivery and to avoid being opened by the State before the deadline for receipt. Envelopes or packages must be addressed as follows:

**North Dakota Information Technology Department
Telecommunications Division
Attn: Dirk Huggett**

Request for Proposal (RFP): **State of North Dakota Transport Services**
RFP Number: **112-0502**
600 East Boulevard Avenue
Bismarck, ND 58505-0100

Proposals must be received by the purchasing agency at the location specified no later than **2:00 P.M., CENTRAL**, Time on **19 August 2005**. Proposals will not be publicly read at the opening.

Proposals may not be delivered orally, by facsimile transmission, by other telecommunication or electronic means. Offerors may fax or electronically transmit signed proposals to a third party who must deliver the proposal to the location indicated above by the date and time designated as the deadline for receipt of proposals.

Offerors assume the risk of the method of dispatch chosen. The State of North Dakota ("State") assumes no responsibility for delays caused by any delivery service. Postmarking by the due date will not substitute for actual proposal receipt by the State. An Offeror's failure to submit its proposal prior to the deadline will cause the proposal to be rejected. Late proposals or amendments will not be opened or accepted for evaluation.

1.05
Assistance to Offerors with a Disability

Offerors with a disability that need an accommodation should contact the procurement officer prior to the deadline for receipt of proposals so that reasonable accommodation can be made.

1.06
Deadline for Receipt of Questions and Objections

Offerors must carefully review this solicitation, the contract, and all attachments for defects, questionable, or objectionable material. All questions must be in writing submitted to the email address of the procurement officer, and cite the subject RFP number. The procurement officer must receive these written requests by the deadline specified in the RFP Schedule of Events to allow issuance of any necessary amendments.

This will also help prevent the opening of a defective solicitation and exposure of the Offerors' proposals upon which an award could not be made. Protests based on the content of the solicitation will be disallowed if these faults have not been brought to the attention of the procurement officer, in writing, before the time indicated in the Schedule of Events.

If the question may be answered by directing the questioner to a specific section of the RFP, then the procurement officer may answer the question over the telephone. Other questions may be more complex and may require a written amendment to the RFP. The procurement officer will make this determination. Oral communications is considered unofficial and non-binding on the State. The Offeror must confirm telephone conversations in writing.

1.07
Approved Vendor Registration Requirements

VENDORS MUST BE APPROVED BEFORE CONTRACT AWARD

Proposals will be accepted from vendors that are not currently approved vendors on the State's Offerors list; however, the successful Offeror must register and become approved within **45**

CALENDAR DAYS from the date of the Notice of Intent to Award. If an Offeror fails to become approved by the time specified by the Procurement Officer, its proposal will be determined to be non-responsive, and its proposal will be rejected.

To become an approved vendor, Offerors must: 1) be registered with the North Dakota Secretary of State (fees apply), and 2) submit a completed Offerors List Application to the North Dakota Vendor Registry Office. Prospective Offerors may access the Procurement Vendor Database on-line to verify whether their firm is currently on the Offerors list. The Offerors list that will be used for this solicitation is commodity code **915-79**.

The Procurement Vendor Database, registration instructions and forms are available on-line at: <http://www.state.nd.us/csd/spo/vendor-resources.htm>. Contact the Vendor Registry Office at 701-328-2773 or infospo@state.nd.us for assistance.

1.08 Offerors Conference

Offeror's conference is scheduled for 22 July 2005, which all Offerors are required to attend. Offerors are advised to carefully review the RFP and all attachments and submit all questions to the procurement officer by the deadline indicated for submission of questions in the RFP Schedule of Events.

1.09 Amendments to the RFP

If an amendment to this RFP is issued, it will be provided to all Offerors that submitted a Letter of Interest (see Section 1.12).

1.10 News Releases

News releases related to this RFP will not be made without prior approval of the procurement officer or project manager designated by the State.

1.11 Notice Provided

Notice of this solicitation has been provided in accordance with N.D.C.C. 54-44.4-09.

The Request for Proposal and any amendments to the RFP will be posted on the following website: <http://www.STAGEnet.nd.gov/current-projects/infrastructure/>.

1.12 Letter of Interest

Vendors interested in receiving any notices related to this RFP are to contact the procurement officer with the name of their firm, contact person, mailing address, telephone number, fax number, and e-mail address. The sole purpose of the letter of interest is to provide the State with a contact person to receive any notices related to the RFP. Submission of a letter of interest does not a requirement for submitting a proposal to this RFP. The State must receive the letters by July 15, 2005.

SECTION TWO BACKGROUND INFORMATION

2.01 Background Information

The State of North Dakota Information Technology Department currently supports a statewide wide area network under the name STAGEnet (Statewide Technology Access for Government and Education). This network provides wide area network services and internet access for State government agencies, political sub-divisions, higher education, and K12 schools.

Current contracts are set to expire in June 2006. The State has developed a 7 – 10 year Vision (see Attachment 6) for the telecommunications infrastructure that is expected to not only meet but exceed current requirements and expectations, as well as remain flexible and provide the necessary scalability required for the years to come. E-rate and outdated market pricing are two important factors driving this procurement effort and the State has taken this opportunity to expand the State's telecom capabilities to include high-speed access to the major centers in the state as well as anytime/anywhere connectivity statewide.

STAGEnet 2006 is the next generation network that envisions a cost-effective and reliable infrastructure addressing such goals as a) increased bandwidth, b) low network latency, c) reliable and survivable service, d) security and privacy, and e) low-cost network access, providing the scale and flexibility to support the convergence of voice, video and data technologies as key components in optimizing statewide services.

2.02 Technical Overview and State Standards

North Dakota State Government Technical Environment

STAGEnet is currently supported with an ATM infrastructure. During the last four years, STAGEnet has diversified into a hybrid design of ATM, Fiber Optics, ISP Broadband, Wireless and Satellite connectivity.

Fiber optic infrastructures and broadband services have been the largest growth area for STAGEnet and have made it possible to meet the demand for higher bandwidth and lower network latency. These solutions have provided metropolitan and rural solutions spanning various North Dakota communities.

ISP Broadband, Wireless and Satellite connectivity are been used to locations which do not require the same internal and/or dedicated connections of ATM or fiber optics. Within the shared infrastructure of STAGEnet are several logical networks. These segments provide enhanced security, quality of service, support, redundancy, and increased maintenance functionality.

STAGEnet has two independent Network Access Points or NAP's. All connectivity terminates into one of these two NAP's. Some STAGEnet locations terminated in both network NAP's for high availability. It is expected that these two NAP's will continue to act as primary network Hub's for STAGEnet 2006

Currently the North Dakota University System is participating in the development of a high speed backbone across the Northern Tier section of the Western United States which includes North Dakota. The growing needs of STAGEnet when combined with such initiatives from the University System enhance the need for a high speed network backbone within North Dakota.

Some of the functions the State provides for STAGEnet are:

- Security and Privacy
- E-rate content filtering
- Technical Knowledge in IP and Ethernet
- Operational Support
- Contact Administration

**2.03
Current Circuit Expenditures**

Baseline Summary of the Current ITD Network Expenses

Circuit Type	Bandwidth	Total Quantity
ATM T1	1.5 Mbps	170
ATM	> 1.5 Mbps	59
Broadband		
Cable	256 Kbps – 3 Mbps	69
DSL	256 Kbps – 2 Mbps	255
Satellite	400 Kbps	2
Wireless		6
Frame Relay	56 Kbps	23
Point to Point Wireless	256 Kbps – 1 Mbps	11
Internet POP Access		2
Total		368
Educational Distance Learning Services (EDLS)		198
Annual Cost		\$4,208,404

Note: The annual cost figure is after EDLS circuits have the E*rate deduction.

SECTION THREE SCOPE AND SCHEDULE

3.01 Scope of Work

The State operates and manages the shared enterprise infrastructure called Statewide Technology Access for Government and Education Network, otherwise called STAGEnet. The State is soliciting proposals for:

- a) Wavelength services to connect eight to ten major node locations throughout the State of North Dakota
- b) Network Access to provide end-point connectivity to more than 500 sites statewide
- c) Internet Access serving State and local government agencies, higher education, K-12 school system.

Business, research, and academic needs are the driving force behind this proposal for increased bandwidth and low latency service that will support the integration of voice, video and data over a single infrastructure. The State's goal is to lease the wavelength services, capable of supporting 2.5 Gigabit OC-48 technology, from the vendor and have the ability to provision on its own terms without additional support or cost, as well as provide cost-effective network and Internet services to its end-users. Offerors will have the option to bid on one, two or all of the services requested (listed above as a,b, and c).

3.02 Definitions

The following terms used herein shall have the following meanings:

- a) **"Backbone"** shall mean the independent facilities being requested in this RFP for the sole purpose of transmitting information for the end-users of the STAGEnet infrastructure.
- b) **"Backbone node"** shall mean the physical site where Offeror wavelengths connect to State-owned equipment. This location can either be co-located at Offeror facilities or established meet point.
- c) **"Contract start date"** shall mean the date the contract is signed by both parties.
- d) **"Maintenance"** shall mean the support of the network and or services that have been awarded.
- e) **"Network Access"** shall mean the end-point connectivity for STAGEnet remote sites connecting to the Backbone.
- f) **"Offeror"** shall mean any responding bidder to this RFP.
- g) **"Service start date"** shall mean the date when 100% of the in scope sites are migrated to Offeror network.
- h) **"STAGEnet"** shall mean the shared enterprise infrastructure called Statewide Technology Access for Government and Education Network.
- i) **"EDLS"** shall mean Education Distance Learning Services
- j) **"NAPs"** shall mean network access points. For internet access this currently refers to Bismarck and Fargo where service is terminated from the vendor.

3.03 Information Technology Solution

A. INTRODUCTION

The State plans to transform the current ATM Backbone into next generation capabilities through a self-healing ring topology, and create a self healing ring with up to 8 nodes providing first level backbone access to Bismarck, Jamestown, Fargo, Grand Forks, Devils Lake, Minot, Williston and Dickinson. The State does reserve the right to include as many, or as few, of the stated Backbone nodes at the State's sole discretion. Also required are wavelength or dark fiber tail circuits (able to support Gigabit Ethernet) to Valley City, Mayville, Wahpeton and Bottineau, completing the high-speed connectivity throughout the university system and major State agency locations. The State is very interested in any available fiber infrastructures or light wave services which would provide access from any established STAGEnet backbone node to any outlying central offices to help aggregate and interconnect available services offered from that region and/or central office. Such services could include DSL, Cable, Wireless, Point-to-Point, and/or additional fiber extensions. The State is very interested in the ability to directly interface with a variety of available services from regional and outlying providers.

B. STAGENET 2006 BACKBONE REQUIREMENTS

The STAGEnet 2006 Backbone must be a technology-enabling platform allowing for growth of both current applications and the addition of sites, while providing for future service connectivity enhancements without network re-design. The State is requesting solutions for an 8 node, wavelength backbone with at least one initial 2.5 Gigabit wavelength and future growth of additional wavelengths. The Offeror must identify compliance, per site, to the 2.5 Gigabit wavelength requirement, as well as the State's desire for scalability to 10 Gigabit in the matrix listed in section 6.07. The State would look favorably on any solution that provides a fiber infrastructure scalable to 10 Gigabit wavelengths, and beyond. The State is looking to lease the facilities and connect using State owned, and managed, equipment. Managed Services solutions will only be considered as an alternative solution. The requested Backbone nodes are as follows: Bismarck, Jamestown, Fargo, Grand Forks, Devils Lake, Minot, Williston and Dickinson. Tail circuits are requested for Mayville, Valley City, Wahpeton and Bottineau.

Network availability and the appropriate support shall be 24x7x365 with any single points of failure in the design identified. No two network segments will share the same physical fiber path. Each Offeror will be required to demonstrate route diversity throughout the Offeror's own network. The solution must be scalable, allowing for the incremental increase of wavelengths at the State's request. The State further requires the ability to introduce private fiber facilities into the Backbone node. In addition, the State will require co-location services including rack, power, air-conditioning, cable entrance facility, access, cross-connect and any other requirement that is necessary for the state to operate and interconnect the backbone at the provider's POP. Offeror must describe requirements and procedures for co-location.

C. STAGENET 2006 NETWORK ACCESS REQUIREMENTS

The State is interested in a two-tiered (urban and rural), flat-rate pricing structure allowing for unlimited usage. The Offeror will define each tier of the rate structure and will use Attachment 6 to categorize each site. The State is willing to entertain point to point circuits to the backbone from remote locations in place of ATM. Access circuits must be priced complete to the States

equipment at a backbone node.

Broadband services are currently purchased as commercial internet access services and configured using VPN for access to the State network. The State would look favorably on the ability to directly connect to the Offeror's broadband services for backhauling data across STAGEnet.

Education Distance Learning Services (EDLS) is a service provided for education entities for distance learning consisting of, at minimum, a T1 access circuit and the necessary CPE to provide data and video connectivity to the end-user. It is required for e-Rate funding that the Offeror provide a service inclusive of the transport and CPE for K-12 schools with the ability for the State to configure and manage the CPE. The State will manage and operate the equipment at each of the sites while the provider maintains the asset and manages the circuit. Any resulting ATM service connecting to the Backbone will require the capability of a separate class of service for video, such as VBR. A circuit list is identified in Attachment 5.

Current circuit types and quantities below.

EDLS Services		
ATM OC3	155 Mbps	2
ATM DS3	45 Mbps	4
ATM T1	1.5 Mbps	152
ATM T1 IMA x 2	3 Mps	32
ATM T1 IMA x 3	4.5 Mbps	0
ATM T1 IMA x 4	6 Mbps	8

Broadband		
Cable	256 kbps- 3 Mbps	69
DSL	256 kbps - 2Mbps	255
Frame Relay	56 kbps	23
Pt-to-Pt Wireless	256 kbps - 1 Mbps	11
Satellite	400 kbps	2
Wireless		6
Internet Access OC12	622 Mbps	2

Non EDLS Services		
ATM OC12	622 Mbps	2
ATM OC3	155 Mbps	21
ATM DS3	45 Mbps	11
ATM T1	1.5 Mbps	170
ATM T1 IMA x 2	3 Mps	22
ATM T1 IMA x 3	4.5 Mbps	3

D. STAGENET 2006 INTERNET ACCESS REQUIREMENTS

Internet services are currently provided by two independent and fully provisioned OC-12 circuits dedicated for State use and directly connected to a tier one Internet Service Provider (ISP). This configuration provides for diversity with nodes in both Bismarck and Fargo, supporting BGP, and IPv6. The Offeror must provide a minimum of 2 independently diverse OC-12 circuits, with guaranteed bandwidth through provider network, fully provisioned for the State and not configured as shared Internet links between the State and the tier one network. The Offeror must provide a design that provides in-State connections to a nationwide tier one Internet Service provider, with scalability beyond the current dual OC-12 configuration. Connectivity between the State and the Offeror must consist of dual path, physically diverse connections to two independent tier one provider IP gateways.

Offeror must provide a description of its IPv6 capabilities, as well as any underlying I2 services which would be presented as a result of the connecting I1 service. Offeror must be capable of border gateway protocol (BGP/BGP4) and support the existing IP address space owned by the State and its affiliated organizations (consisting of 2 class b subnets). Offeror must identify peering points to Network Access Points (NAPs), Metropolitan Area Exchanges (MAEs), and any major ISP network connections with other tier one backbones with bandwidth specifications and network connection types. Included in the design should be detail regarding route diversity, contracted bandwidth guarantees and hop counts through the ISP network, current utilization including average and peak utilization, downtime, number and duration of outages data. ISPs must list their Points of Presence (POPs), their locations, and whether these premises are owned or leased. Required is specific information on the Network Operations Center (NOC), such as hours of operation, and detailed information outlining facilities utilized by the ISP. It is the State's desire that local loops between the State and the provider be customer provided facilities. In addition, the State desires co-location services including rack, power, air-conditioning, cable entrance facility, access, cross-connect, and any other requirement that is necessary for the state to operate and interconnect the backbone at the provider's POP. Tier one internet access, with increasing access rates is desired and the Offeror should describe any value added services that they would make available to the State. Any offered or proposed value-added service(s), which have not been requested, must be listed separately and the cost information broken out from the base service in cost proposal.

E. IT PROFESSIONAL SERVICES

The Offeror must maintain a project management office in Bismarck during the design and implementation phases of this project. This office shall be responsible for administrative functions, project design/development, and initial installation. Once the initial cutover is complete and the network is fully operational and accepted, a local project management office is not required. The Offeror shall provide information regarding intent to maintain its facilities after project implementation has been completed. The State will not provide space for a project management office.

F. VALUE ADDED FEATURES

Offerors are invited to provide any other information that they feel is relevant to this RFP process. For example, would the Offeror provide any additional services at no cost to the State, or assist the State in evaluating its existing needs and future needs. The Offeror is also given the option to provide additional technical support or to offer additional services such as network capacity planning or design. The Offeror is further invited to provide solutions for Managed

Services, or other products for the State to consider.

G. MIGRATION PLAN

The Offeror must provide a high level migration plan from the current services to the Offeror's services. Individual plans should be submitted for the services that the Offeror is bidding on (Backbone, Internet Access, or Access).

3.04

Product Support and Customer Service Requirements

Offeror must describe process for trouble reporting and requesting additional services.

Network Operations Center Requirements

The Offeror shall establish an in-State Network Operations Center (NOC), preferably in Bismarck, or the surrounding areas. This NOC will be staffed during normal State business hours, Monday through Friday from 8:00 a.m. to 5:00 p.m., Central Time for administrative business. The NOC must provide 24x7x365 support for monitoring, trouble reporting, and problem resolution. The NOC will serve as the State's single point of contact (SPOC) and provide direct support of the State's network for all circuit related issues including, but not limited to, order entry, installation, network monitoring, trouble resolution, and billing. The State NOC is to be interconnected and interface with the provider's own Network Management System (NMS), NOC and management staff. The NOC shall be fully described (equipment, personnel, features, etc.) in the Offeror's proposal.

To ensure a reliable network, the State believes that it must have the capability to automatically and continuously monitor all state network connections. To this end the Offeror shall propose its method(s) of determining that all circuits are active and working. The Offeror must fully describe its monitoring and reporting features including copies of reports and how the operational integrity of the network will be maintained. At minimum, the State will require monthly performance reporting and root cause analysis reports for chronic troubles.

Maintenance Procedures

The Offeror must establish a formal procedure for providing Maintenance service (to be approved by the State) that would include: 24-hour help desk, trouble reporting forms, trouble reporting procedures, toll free telephone numbers for voice and facsimile, e-mail addresses, maintenance organizational chart (showing supervision and key personnel), and escalation procedures. All listed personnel contact information shall include office numbers and email addresses, as well as a 24 hour reach number in case of emergency.

Service Level Agreement

RFP Offerors should anticipate that Service Level Agreements will be required and specified by the State prior to final contract consummation. Offeror's are requested to propose their recommended Service Levels and describe the value to the State.

3.05

Prior Experience

In order for offers to be considered responsive, Offerors must meet the minimum prior experience requirements. Any Offeror's failure to meet these minimum prior experience requirements will cause its proposal to be considered non-responsive and its proposal will be rejected. The minimum experience requirements are that the Offeror must be a reputable and financially stable company with at least three years of experience in the common carrier business for large telecommunications networks.

3.06

Federal Requirements

The Offeror must identify and comply with all known federal requirements that apply to the proposal, the evaluation, or the contract, including all E-rate requirements.

SECTION FOUR GENERAL CONTRACT INFORMATION

4.01 Contract Term, Extension and Renewal Options

The State intends to enter into a contract with an effective date beginning July 1, 2006. The State intends to award contract(s) with a term of up to seven (7) years on the Backbone, five (5) years on Network access and three (3) years for Internet services, with three (3) one year contract extensions on each.

4.02 Contract Type

This contract is a Fixed Price with Adjustment contract. Price Adjustments will be negotiated at the request of either party. Prices Adjustments will made by execution of a written amendment to this contract, and the adjustment will be effective when both parties have signed the amendment, unless otherwise specified in the amendment.

The State must be notified in a timely manner of all price decreases. Requests for price increases must include a copy of the manufacturer's official notice or other evidence that the increase is applicable to all customers.

4.03 Sample Terms And Conditions

Any objections to the contract provisions in Attachment 2 must be set out in the Offeror's proposal.

4.04 Proposal as a Part of the Contract

Part or all of this RFP and the successful proposal may be incorporated into the contract.

4.05 Additional Terms and Conditions

The State reserves the right to add, delete, or modify terms and conditions during contract negotiations. These terms and conditions will be within the scope of the RFP and will not affect the proposal evaluations.

4.06 Supplemental Terms and Conditions

Proposals including supplemental terms and conditions will be accepted, but supplemental conditions that conflict with those contained in this RFP or that diminish the State's right's under any contract resulting from the RFP will be considered null and void. The State is not responsible for identifying conflicting supplemental terms and conditions before issuing a contract award. After award of contract:

- (a) if conflict arises between a supplemental term or condition included in the proposal and a term or condition of the RFP, the term or condition of the RFP will prevail; and

- (b) if the State's rights would be diminished as a result of application of a supplemental term or condition included in the proposal, the supplemental term or condition will be considered null and void.

4.07

Contract Approval

This RFP does not, by itself, obligate the State. The State's obligation will commence when the purchasing agency signs the contract. Upon written notice to the contractor, the State may set a different starting date for the contract. The State will not be responsible for any work done by the contractor, even work done in good faith, if it occurs prior to the contract start date set by the State.

4.08

Contract Changes - Unanticipated Amendments

During the course of this contract, the contractor may be required to perform additional work. That work will be within the general scope of the initial contract. When additional work is required, the project manager designated by the State will provide the contractor a written description of the additional work and request the contractor to submit a firm time schedule for accomplishing the additional work and a firm price for the additional work. Cost and pricing data must be provided to justify the cost of amendments.

The contractor will not commence additional work until the project director has secured any required State approvals necessary for the amendment and issued a written contract amendment, approved by the purchasing agency.

4.09

Indemnification and Insurance Requirements

Offerors must review the attachment two for indemnification and insurance requirements. The indemnification and insurance provisions will be incorporated into the final contract.

Objections to any of the provisions of the Indemnification and Insurance Requirements must be made in writing to the attention of the procurement officer by the time and date set for receipt of questions. No alteration of these provisions will be permitted without prior written approval from the purchasing agency in consultation with the North Dakota Risk Management Division.

Upon receipt of the Notice of Intent to Award, the successful Offeror must obtain the required insurance coverage and provide the procurement officer with proof of coverage prior to contract approval. The coverage must be satisfactory to the purchasing agency, in consultation with the North Dakota Risk Management Division. The Offeror's failure to provide evidence of insurance coverage is a material breach and grounds for withdrawal of the award or termination of the contract.

4.10

Taxes and Taxpayer Identification

The contractor must provide a valid Vendor Tax Identification Number as a provision of the contract.

The State is not responsible for and will not pay local, state, or federal taxes. The State sales

tax exemption number is E-2001, and certificates will be furnished upon request by the purchasing agency.

A contractor performing any contract, including service contracts, for the United States Government, State of North Dakota, counties, cities, school districts, park board or any other political subdivisions within North Dakota is not exempt from payment of sales or use tax on material and supplies used or consumed in carrying out contracts. In these cases, the contractor is required to file returns and pay sales and use tax just as required for contracts with private parties. Contact the North Dakota Tax Department at 701-328-2770 or visit its website at www.ndtaxdepartment.com for more information.

A contractor performing any contract, including a service contract, within North Dakota is also subject to the corporation income tax, individual income tax, and withholding tax reporting requirements, whether the contract is performed by a corporation, partnership, or other business entity, or as an employee of the contractor. In the case of employees performing the services in the state, the contractor is required to withhold state income tax from the employees' compensation and remit to the state as required by law.

4.11 Proposed Payment Procedures

The State will make payments based on a negotiated payment schedule. Each billing must consist of an invoice and progress report. No payment will be made until the progress report and the project director has approved invoice.

4.12 Contract Funding

Approval or continuation of a contract resulting from this solicitation is contingent upon continuing appropriation. The contract may be terminated by the state or modified by agreement of both parties in the event funding from federal, state, or other sources is not obtained and continued at sufficient levels.

4.13 Payment Terms

No payment will be made until the purchasing agency approves the contract.

Payment for commodities and services received under contracts will normally be made within 30 calendar days after receipt and acceptance by the purchasing agency or after receipt of a correct invoice, whichever is later. Payment inquiries must be directed to the purchasing agency.

Prompt Payment Discount Terms offered by the contractor may be taken by the purchasing agency if payment is made within the specified terms.

4.14 Contract Personnel

The project manager designated by the purchasing agency must approve any change of the contractor's project team members named in the proposal, in advance and in writing. Personnel changes that are not approved by the State may be grounds for the State to terminate the

contract.

**4.15
Right to Inspect Place of Business**

At reasonable times, the State may inspect those areas of the contractor's place of business that are related to the performance of a contract. If the State makes an inspection, the contractor must provide reasonable assistance.

**4.16
Inspection & Modification - Reimbursement for Unacceptable Deliverables**

The contractor is responsible for the completion of all work set out in the contract. All work is subject to inspection, evaluation, and approval by the project manager designated by the State. The State may employ all reasonable means to ensure that the work is progressing and being performed in compliance with the contract. Should the project manager determine that corrections or modifications are necessary in order to accomplish its intent; the project manager may direct the contractor to make changes. The contractor will not unreasonably withhold changes.

Substantial failure of the contractor to perform the contract may cause the State to terminate the contract. In this event, the State may require the contractor to reimburse monies paid (based on the identified portion of unacceptable work received) and may seek associated damages.

**4.17
Termination for Default**

If the project manager designated by the purchasing agency determines that the contractor has refused to perform the work or has failed to perform the work with diligence as to ensure its timely and accurate completion, the State may, by providing written notice to the contractor, terminate the contractor's right to proceed with part or all of the remaining work.

This clause does not restrict the State's right to termination under the contract provisions of the Service Contract, attached.

**4.18
Open Records Laws - Confidentiality**

Any records that are obtained or generated by the contractor under this contract are subject to North Dakota open records law regarding public records and handling of confidential information.

**4.19
Work Product, Equipment, and Material**

All work product, equipment or materials created or purchased under this contract belong to the State and must be delivered to State at State's request upon termination of this contract, unless otherwise agreed in writing by the purchasing agency.

4.20 Independent Entity

The contractor is an independent entity under this contract and is not a State employee for any purpose. The contractor retains sole and absolute discretion in the manner and means of carrying out the contractor's activities and responsibilities under the contract, except to the extent specified in the contract.

4.21 Assignment

Contractor may not assign or otherwise transfer or delegate any right or duty without the State's express written consent. However, the contractor may enter into subcontracts provided that the subcontract acknowledges the binding nature of this contract and incorporates this contract, including any attachments.

4.22 Disputes - Applicable Law and Venue

Any dispute arising out of this agreement will be resolved under the laws of the State of North Dakota. Any action to enforce the contract must be brought in the District Court of Burleigh County, North Dakota.

4.23 Informal Debriefing

When the contract is completed, an informal debriefing may be performed at the discretion of the procurement officer or project manager designated by the State. If performed, the scope of the debriefing will be limited to the work performed by the contractor. The debriefing time and location will be negotiated between the State and the Offeror.

4.24 Performance Bond

A Performance Bond is required.

Offerors must obtain a letter of commitment for a performance bond from a bonding company and submit it with the proposal. The amount of the performance bond must be equal to 15% of the contract price. The Performance Bond is to expire after final acceptance of network migration to Offeror's network.

If the contractor fails to satisfactorily perform the contract, the bonding company that provided the performance bond will be required to pay the dollar amount of the bond to the State.

The actual performance bond must be obtained from the bonding company and provided to the State within **14 CALENDAR DAYS** after the date of the Notice of Intent to Award unless the time is extended in writing by the purchasing agency. An Offeror's failure to provide the performance bond, within the required time, will cause the State to reject the proposal.

**SECTION FIVE
EVALUATION CRITERIA AND CONTRACTOR SELECTION**

**THE TOTAL NUMBER OF POINTS USED
TO SCORE THIS CONTRACT IS 100**

5.01

Information Technology Solution

Forty Percent (40%) of the total possible evaluation points will be assigned to this criterion.

Weight **40 Percent**. Maximum Point Value for this Section

100 Points x **40 Percent = 40 Points**

Rating Scale (40 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-10	Fair. Limited applicability
11-20	Good. Some applicability
21-30	Very Good. Substantial applicability
31-40	Excellent. Total applicability

Proposals will be evaluated against the questions set out below.

[a] How well does the proposed product and/or services meet the functional requirements? Has the Offeror proposed services that align with the requirements and demonstrate a good understanding of the scope required for this project?

[b] Is the proposed product and/or service compatible with the State's technology standards, and/or will it interface with existing technology if required?

[c] Evaluate the Offeror's response to the IT professional services requirements. What is the impact of the Offeror's migration plan to the State? How well developed is the migration plan?

[d] Has the Offeror proposed any value-added functionality, products, services, or upgrades as part of the proposal that demonstrate added value?

5.02

Product Support and Customer Service

Ten (10%) of the total possible evaluation points will be assigned to this criterion.

Weight **10 Percent**. Maximum Point Value for this Section

100 Points x **10 Percent = 10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability
3-5	Good. Some applicability
6-8	Very Good. Substantial applicability
9-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below.

[a] How well has the Offeror described their processes for trouble reporting and requesting additional services? How well do the process meet the States needs?

[b] How well has the Offeror met the Network Operations requirements?

[c] Evaluation of the technical support services included and other technical support options?

[d] What is the value of the proposed service levels?

[d] Evaluate the Offeror’s proposed account representation in support of this contract?

[e] How well has the Offeror identified its plan for handling customer inquiries and response time to inquiries?

[f] Has the Offeror proposed any value-added support services, as part of the proposal that demonstrate added value?

5.03

Experience, Qualifications, and Financial Strength

Ten Percent (10%) of the total possible points will be assigned to this criterion.

Weight **10 Percent**. Maximum Point Value for this Section

100 Points x **10 Percent = 10 Points**

Rating Scale (10 POINT Maximum)	
Point Value	Explanation
0	None. Not addressed or response of no value
1-2	Fair. Limited applicability

3-5	Good. Some applicability
6-8	Very Good. Substantial applicability
9-10	Excellent. Total applicability

Proposals will be evaluated against the questions set out below.

[a] How extensive is the applicable education and experience of the personnel designated to work on the project?

[b] Has the firm demonstrated experience in completing similar projects on time and within budget?

[c] Did the required references provide information to verify the satisfactory performance of the vendor?

[d] How well do any subcontractors measure up to the evaluation used for the Offeror?

[e] Does the firm appear to be financially stable?

5.04

Contract Cost

Forty Percent (40%) of the total possible evaluation points will be assigned to cost.

Weight **40 Percent**. Maximum Point Value for this Section

100 Points x **40 Percent = 40 Points**

Converting Cost to Points

After applying any reciprocal preference, the lowest cost proposal will receive the maximum number of points allocated to cost. The point allocations for cost on the other proposals will be determined as follows:

Lowest Cost Proposal	40 Points
Within 5% of Lowest Cost Proposal	35 Points
Within 10% of Lowest Cost Proposal	30 Points
Within 15% of Lowest Cost Proposal	25 Points
Within 20% of Lowest Cost Proposal	20 Points
Within 25% of Lowest Cost Proposal	15 Points
Within 30% of Lowest Cost Proposal	10 Points
Within 35% of Lowest Cost Proposal	5 Points
40% or more over Lowest Cost Proposal	0 Points

Any prompt payment discounts terms proposed by the Offeror will not be considered in evaluating cost. The cost amount used for evaluation may be affected by the application of North Dakota preference laws (N.D.C.C. § 44-08-01). The lowest cost proposal will receive the maximum number of points allocated to cost.

5.05

Oral Presentations

Offerors determined to be reasonably acceptable for award may be required to provide an on-site oral presentation of the proposed solution for the evaluation committee.

If presentations are needed they will be held in Bismarck, ND, August 25-26, 2005. The State will schedule a date and time with each of the Offerors.

Offerors will be responsible for all costs associated with the providing the demonstration.

5.06

Site Inspection of Offeror's Facility

The State may conduct on-site visits to the Offeror's firm or Offeror's customer where comparable service is being performed to evaluate the Offeror's capacity to perform the contract. An Offeror must agree, at risk of being found non-responsive and having its proposal rejected, to provide the State reasonable access to relevant portions of its work sites. Individuals designated by the State will conduct the site inspection at the State's expense.

SECTION SIX PROPOSAL FORMAT AND CONTENT

6.01 Proposal Format and Content

The State discourages overly lengthy and costly proposals; however, in order for the State to evaluate proposals fairly and completely, Offerors must follow the format set out in this RFP and provide all information requested. The Offeror's proposal shall include a point by point response for each paragraph in this RFP.

6.02 Introduction

Proposals must include the complete name and address of Offeror's firm and the name, mailing address, and telephone number of the person the State should contact regarding the proposal.

Proposals must confirm that the Offeror will comply with all provisions in this RFP. The proposal must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota).

Proposals must be signed by a company officer empowered to bind the company. The Offeror's failure to include these items in the proposals may cause the proposal to be determined to be non-responsive and the proposal may be rejected.

6.03 Information Technology Solution

Offerors must provide a comprehensive response to the Information Technology Solution specified in Section 3.03. Responses must be in the same sequence as they appear in Section 3.03. Offerors may choose to answer sections 3.03 B, C, and/or D in any combination thereof. If an Offeror chooses to answer any one of the sections it must be stated clearly the Offeror's intent and follow the format throughout this entire RFP. Offerors must provide supporting narrative and documentation when required in response to the requirements of this section.

6.04 Product Support and Customer Service

Offerors must provide a comprehensive response to the product support and customer service requirements specified in Section 3.04. Responses must be in the same sequence as they appear in Section 3.04. Offerors must provide supporting narrative and documentation when required in response to the product support requirements. If answering only a portion of Section 3.03, Offeror must also include procedures and relationships with other providers and a methodology in order to provide support to the State.

6.05 Experience and Qualifications

In order for Offerors to be considered responsive they must meet the minimum requirements stated in Section 3.05. Offerors must demonstrate minimum of three years experience the common carrier business for large telecommunications networks. Offerors must describe the

experience of their firm in completing similar projects and supply project summaries on previous network projects.

Offerors must provide information specific to the personnel assigned to accomplish the work called for in this RFP. Offerors must provide a narrative description of the organization of the project team and personnel. Provide the following information about each person listed:

- (a) title;
- (b) resume;
- (c) description of the type of work the individual will perform; and
- (d) the number of estimated hours for each individual named above.

If an Offeror intends to use subcontractors, the Offeror must identify in the proposal the names of the subcontractors and the portions of the work the subcontractors will perform. Offerors are responsible for all work performed by their subcontractors.

Offerors must provide three reference names and phone numbers for similar projects the Offeror's firm has completed. The State reserves the right to contact any references provided by the Offeror. Offerors are invited to provide letters of reference from previous clients.

6.06 Financial Requirements

- A.** The Offeror shall provide financial information in such a manner that a determination about the stability and financial strength of the organization can be reasonably formulated. This must include but not be limited to company size, organization, date of incorporation, ownership, number of employees, revenues for the last fiscal year, audited financial statements for the most recent three years, and other information which is relevant to this RFP. A current Dun and Bradstreet Report would fulfill this requirement. An Annual Report can be used as verification of financial status provided it contains at a minimum a Compiled Income Statement and Balance Sheet verified by a Certified Public Accounting firm. The State reserves the right to contact the accounting firm if questions arise.
- B.** Disclose any and all judgments, pending or expected litigation, or other real potential financial reversals, which might materially affect the viability or stability of the Offeror's organization; or certify that no such condition is known to exist.
- C.** A confidentiality statement may be included if this portion is considered non-public information. The State may request reports on financial stability from independent financial rating services in order to further substantiate stability.

6.07 Cost Proposal

Offerors must prepare separate cost proposals for Backbone, Access, and Internet each part will be evaluated separately.

Offerors should describe any discount terms for prompt payment, bundled services, or other such criteria. Discounts will be considered in evaluating costs and must be included separately.

All costs associated with the contract must be stated in U.S. currency and represent the monthly reoccurring rates. Any commodities being imported must be identified, and the price must include any applicable customs, brokerage agency fees, and duties.

Backbone

The Offeror will price each leg separately and mark availability to scale to 10 Gbps with a Yes / No answer. The Offeror must bid on all of the backbone links in the “Backbone Pricing Matrix” and all of the tail links in the “Tail Pricing Matrix”. The Offeror is encouraged by the state to bid on any additional tail links that will enhance the network as described in the vision document and list such links in the “Optional Tail Pricing Matrix”. The Offeror must list co-location services and the associated prices for the services in the “Backbone Co-Location Price” table.

Backbone Pricing Matrix

Description	2.5 Gbps Wavelength 5 Year Contract	2.5 Gbps Wavelength 7 Year Contract	2.5 Gbps Wavelength 10 Year Contract	10 Gbps Availability
BIS - FAR				YES / NO
BIS - JAM				YES / NO
BIS - GFK				YES / NO
BIS - MIN				YES / NO
BIS - DIC				YES / NO
FAR - GFK				YES / NO
FAR - JAM				YES / NO
GFK - DEV				YES / NO
DEV - MIN				YES / NO
MIN - WIL				YES / NO
WIL - DIC				YES / NO

Tail Pricing Matrix

Description	Dark Fiber or 1550 nm (specify which) 5 Year Contract	Dark Fiber or 1550 nm (specify which) 7 Year Contract	Dark Fiber or 1550 nm (specify which) 10 Year Contract	Estimated Span Loss Budget	2.5 Gbps Wavelength 5 Year/ 7 Year/10 Year
FAR - WAH					
FAR - MAY					
GFK – MAY					
FAR - VAL					
MIN – BOT					
JAM – VAL					
BOT - DEV					

Optional Tail Pricing Matrix

Description	Dark Fiber or 1550 nm (specify which) 5 Year Contract	Dark Fiber or 1550 nm (specify which) 7 Year Contract	Dark Fiber or 1550 nm (specify which) 10 Year Contract	Estimated Span Loss Budget	2.5 Gbps Wavelength 5 Year/ 7 Year/10 Year

Backbone Co-Location Price

Service Description	Price

Access Circuits

The Offeror should categorize the access circuits into a two-tiered (urban and rural), flat-rate pricing structure allowing for full bandwidth usage. The City Tier Table below was derived from the cities that currently have access service as identified in Attachment 5. The Offeror must indicate if the city listed is considered Tier 1 or Tier 2 and enter the pricing information for both Tiers. The tiered price must include the costs to get to the backbone described above.

All EDLS circuit costs must include the circuit and the customer premise equipment. The current provided minimum CPE configuration for each EDLS location includes the following:

- 1 ATM T1 with dual ATM VC's
- 1M of provisioned VBR providing WAN QoS
- Backboard, 19" Wall Rack, & Associated Hardware
- Cisco 2620 Router
- Cisco 2620 12.2.x IOS (supporting SNMP, 802.1q & 802.1p)
- Cisco 2620 4-Port ATM IMA Module
- Cisco 2912XL 12 Port Ethernet Switch
- Cisco 2912XL 12.1.x IOS (supporting SNMP, 802.1q & 802.1p)
- APC 700 Rack Mount UPS

The Offeror will provide the above CPE or equivalent for EDLS T1 circuits. The EDLS equipment may not survive the term of any new contract and could possibly require a technology refresh. The refresh may become necessary in order to meet new and improved technologies or possible manufacturer discontinued notices. These factors need to be taken into consideration and included in the price for EDLS services listed below.

City Tier Table

City	Tier 1 (Urban)	Tier 2 (Rural)
Adams		
Alexander		
Almont		
Amidon		
Anamoose		
Aneta		
Arvilla		
Ashley		
Beach		
Belcourt		
Belfield		
Berthold		
Beulah		
Binford		
Bisbee		
Bismarck		
Bottineau		
Bowbells		
Bowman		
Buffalo		
Burlington		
Buxton		
Calvin		
Cando		
Cannon Ball		
Carrington		
Carson		
Casselton		
Cavalier		
Center		
Cooperstown		
Courtenay		

City	Tier 1 (Urban)	Tier 2 (Rural)
Crosby		
Des Lacs		
Devils Lake		
Dickinson		
Dodge		
Drake		
Drayton		
Dunseith		
Eckelson		
Edgeley		
Edinburg		
Edmore		
Elgin		
Ellendale		
Emerado		
Enderlin		
Epping		
Fargo		
Fessenden		
Finley		
Flasher		
Fordville		
Forman		
Fort Ransom		
Fort Totten		
Fort Yates		
Gackle		
Garrison		
GF Air Base		
Gilby		
Glen Ullin		
Glenburn		
Glenfield		

City	Tier 1 (Urban)	Tier 2 (Rural)
Golva		
Goodrich		
Grafton		
Grand Forks		
Granville		
Grenora		
Halliday		
Harvey		
Hatton		
Hazelton		
Hazen		
Hebron		
Hettinger		
Hillsboro		
Hope		
Hunter		
Hurdsfield		
Inkster		
Jamestown		
Joliette		
Kenmare		
Kensal		
Killdeer		
Kindred		
Kulm		
Lakota		
LaMoure		
Langdon		
Lankin		
Lansford		
Larimore		
Leeds		
Lidgerwood		

City	Tier 1 (Urban)	Tier 2 (Rural)
Lignite		
Linton		
Lisbon		
Litchville		
Maddock		
Makoti		
Mandan		
Mandaree		
Manning		
Manvel		
Marion		
Max		
Mayville		
McClusky		
McLaughlin SD		
McVile		
Medora		
Menoken		
Michigan		
Minnewaukan		
Minot		
Minto		
Mohall		
Montpelier		
Mott		
Munich		
Napoleon		
New England		
New Rockford		
New Salem		
New Town		
Newburg		
Northwood		

City	Tier 1 (Urban)	Tier 2 (Rural)
Oakes		
Oberon		
Oriska		
Page		
Park River		
Parshall		
Pekin		
Pembina		
Petersburg		
Pettibone		
Pick City		
Pingree		
Plaza		
Powers Lake		
Ray		
Rhame		
Richardton		
Riverdale		
Robinson		
Rocklake		
Rogers		
Rolette		
Rolla		
Rugby		
Saint John		
Sawyer		
Selfridge		
Sherwood		
Sheyenne		
Solen		
South Heart		
St Anthony		
Stanley		

City	Tier 1 (Urban)	Tier 2 (Rural)
Stanton		
Starkweather		
Steele		
Strasburg		
Streeter		
Surrey		
Sykeston		
Tappen		
Taylor		
Thompson		
Tioga		
Tower City		
Towner		
Trenton		
Turtle Lake		
Underwood		
Valley City		
Velva		
Wahpeton		
Warwick		
Washburn		
Watford City		
West Fargo		
Westhope		
White Shield		
Wildrose		
Williston		
Wimbledon		
Wishek		
Wolford		
Wyndmere		
Zeeland		

Access Services Pricing

SERVICES	Price for Tier 1 Services	Price for Tier 2 Services
ATM T1		
Point to Point T1		
ATM DS3		
Point to Point DS3		
ATM OC3		
Point to Point OC3		
ATM OC12		
Point to Point OC12		
EDLS 11 (1xT1 IMA)		
EDLS 12 (2xT1 IMA)		
EDLS 13 (3xT1 IMA)		
EDLS 14 (4xT1 IMA)		
EDLS 31 (DS3)		
EDLS OC (OC3)		

Internet Access

The internet access should be priced according to the requirements in section 3.03 C at OC12c and higher speeds. The Offeror must list co-location services and the associated prices for the services in the “Internet Co-Location Price” table.

Internet Pricing

<u>Bandwidth</u>	<u>Quantity at Fargo</u>	<u>Quantity at Bismarck</u>	<u>Price</u>
<u>OC12c</u>	<u>1</u>	<u>1</u>	
<u>OC12c</u>	<u>1</u>	<u>2</u>	
<u>OC12c</u>	<u>2</u>	<u>2</u>	
<u>OC48c</u>	<u>1</u>	<u>1</u>	

Internet Co-Location Pricing

Service Description	Price

6.08

Required Enclosures

Offerors must provide all documents, samples, or other information specifically required in this RFP.

SECTION SEVEN STANDARD PROPOSAL INFORMATION

7.01

Authorized Signature

An individual authorized to bind the Offeror to the provisions of the RFP must sign all proposals.

7.02

State Not Responsible for Preparation Costs

The State will not pay any cost associated with the preparation, submittal, presentation, or evaluation of any proposal.

7.03

Conflict of Interest

Offerors must disclose any instances where the firm or any individuals working on the contract has a possible conflict of interest and, if so, the nature of that conflict (e.g. employed by the State of North Dakota). The State reserves the right to cancel the award if any interest disclosed from any source could either give the appearance of a conflict or cause speculation as to the objectivity of the Offeror's proposal. The State's determination regarding any questions of conflict of interest is final.

7.04

Offeror's Certification

By signature on the proposal, the Offeror certifies that it complies with:

- a) the laws of the State of North Dakota;
- b) North Dakota Administrative Code;
- c) all applicable local, state, and federal laws, code, and regulations;
- d) the applicable portion of the Federal Civil Rights Act of 1964;
- e) the Equal Employment Opportunity Act and the regulations issued by the federal government;
- f) the Americans with Disabilities Act of 1990 and the regulations issued by the federal government;
- g) all terms, conditions, and requirements set forth in this RFP;
- h) a condition that the proposal submitted was independently arrived at, without collusion;
- i) a condition that the offer will remain open and valid for the period indicated in this solicitation; and
- j) any condition that the firm and/or any individuals working on the contract do not have a possible conflict of interest (e.g. employed by the State of North Dakota).

If any Offeror fails to comply with the provisions stated in this paragraph, the State reserves the right to reject the proposal, terminate the contract, or consider the contractor in default.

7.05

Offer Held firm

Proposals must remain open and valid for at least **120 DAYS** from the deadline specified for submission of proposals. In the event award is not made within **120 DAYS**, the State will send

a written request to all Offerors deemed susceptible for award asking Offerors to hold their price firm for a longer specified period of time.

7.06

Amendments to Proposals and Withdrawals of Proposals

Offerors may amend or withdraw proposals prior to the deadline set for receipt of proposals. No amendments will be accepted after the deadline unless they are in response to the State's request. After the deadline, Offerors may make a written request to withdraw proposals and provide evidence that a substantial mistake has been made. The procurement officer may permit withdrawal of the proposal upon verifying that a substantial mistake has been made, and the State may retain the Offeror's bid bond or other bid type of bid security, if one was required.

7.07

Alternate Proposals

Offerors may submit alternate proposals for evaluation.

Alternate proposals, including managed services offerings, volume discounts for bundled services, etc. will be considered, only if the required proposal to this RFP is submitted. However, all Offerors should be aware the State reserves the right to reject any alternate proposal for any reason.

7.08

Subcontractors

Subcontractors may be used to perform work under this contract. If the Offeror intends to use subcontractors, the Offeror must identify in the proposal the names of the subcontractors and the portions of the work the subcontractors will perform.

If a proposal with subcontractors is selected, the Offeror must provide the following information concerning each prospective subcontractor within **five working days** from the date of the State's request:

- (a) complete name of the subcontractor;
- (b) complete address of the subcontractor;
- (c) type of work the subcontractor will be performing;
- (d) percentage of work the subcontractor will be providing;
- (e) evidence, as set out in the relevant section of this RFP, that the subcontractor is registered and, if applicable, holds a valid North Dakota business license; and
- (f) a written statement, signed by each proposed subcontractor that clearly verifies that the subcontractor is committed to render the services required by the contract.
- (g) a copy of the Offeror/subcontractor contract verifying the Offeror as the sole responsibility for any and all services under this RFP and financially liable, without exception, to the State for all services contracted by the Offeror under this RFP.

The Offeror's failure to provide this information, within the time set, may cause the State to consider its proposal non-responsive and reject it. The substitution of one subcontractor for another may be made only at the discretion and prior written approval of the State's procurement officer or project manager designated by the State.

7.09 Joint Ventures

Joint ventures are acceptable. If submitting a proposal as a joint venture, the Offeror must submit a copy of the joint venture agreement that identifies the principles involved and its rights and responsibilities regarding performance and payment.

7.10 Disclosure of Proposal Contents and Compliance with North Dakota Open Records Laws

All proposals and other material submitted become the property of the State and may be returned only at the State's option. All proposals and related information, including detailed cost information, are exempt records and will be held in confidence until an award is made, in accordance with N.D.C.C. § 54-44.4-10(2).

Offerors may make a written request that trade secrets and other proprietary data contained in proposals be held confidential. Material considered confidential by the Offeror must be clearly identified, and the Offeror must include a brief statement that sets out the reasons for confidentiality. See the North Dakota Office of the Attorney General website for additional information. <http://www.ag.state.nd.us/OpenRecords/ORM.htm>

After award, proposals will be subject to the North Dakota open records law. Records are closed or confidential only if specifically stated in law. If a request for public information is received, the procurement officer, in consultation with the Office of the Attorney General, will determine whether the information is an exception to the North Dakota open records law, and the information will be processed appropriately.

7.11 Evaluation of Proposals

All proposals will be reviewed to determine if they are responsive to the requirements of this solicitation. An evaluation committee will evaluate responsive proposals. The evaluation will be based solely on the evaluation factors set forth in this RFP. The evaluation will consider information obtained subsequent to any discussions with Offerors determined to be reasonable for award and any demonstrations, oral presentations, or site inspections, if required in this RFP.

7.12 Right of Rejection

The State reserves the right to reject any proposals, in whole or in part. Proposals received from debarred or suspended vendors will be rejected. The procurement officer may reject any proposal that is not responsive to all of the material and substantial terms, conditions, and performance requirements of the RFP.

Offerors may not qualify the proposal nor restrict the rights of the State. If any Offeror does so, the procurement officer may determine the proposal to be a non-responsive counter-offer and the proposal may be rejected.

The procurement officer may waive minor informalities that:

- do not affect responsiveness;
- are merely a matter of form or format;

- do not change the relative standing or otherwise prejudice other offers;
- do not change the meaning or scope of the RFP;
- are insignificant, negligible, or immaterial in nature;
- do not reflect a material change in the work; or
- do not constitute a substantial reservation against a requirement or provision,

The State reserves the right to reject any proposal determined to be non-responsive, and to reject the proposal of any Offeror determined to be non-responsive. The State also reserves the right to refrain from making an award if it determines it to be in its best interest.

7.13

Clarification of Offers

In order to determine if a proposal is reasonably susceptible for award, communications by the procurement officer or the proposal evaluation committee are permitted with any Offeror to clarify uncertainties or eliminate confusion concerning the contents of a proposal and determine responsiveness to the RFP requirements. Clarifications may not result in a material or substantive change to the proposal. The initial evaluation may be adjusted because of a clarification under this section.

After receipt of proposals, if there is a need for any substantial clarification or material change in the RFP, an amendment will be issued. The amendment will incorporate the clarification or change, and a new date and time established for new or amended proposals. Evaluations may be adjusted as a result of receiving new or amended proposals.

7.14

Discussions and Best and Final Offers

The State may conduct discussions or request best and final offers with Offerors that have submitted proposals determined to be reasonably susceptible for award. The State is not obligated to do so, therefore, vendors should submit their best terms (cost and technical). The purpose of these discussions is to ensure full understanding of the requirements of the RFP and the Offeror's proposal. Discussions will be limited to specific sections of the RFP or proposal identified by the procurement officer. Discussions, if held, will be after the initial evaluation of proposals by the evaluation committee. If modifications to the proposal are made as a result of these discussions, the modifications must be put in writing.

Offerors with a disability needing accommodation should contact the procurement officer prior to the date set for discussions so that reasonable accommodation can be made.

7.15

Preference Laws

The preference given to a resident North Dakota Offeror will be equal to the preference given or required by the state of the nonresident Offeror. A "resident" North Dakota Offeror, seller, or contractor is one that has maintained a bona fide place of business within this State for at least one year prior to the date on which a contract was awarded. For a listing of state preference laws, visit the following website:

http://tpps.das.state.or.us/purchasing/pref-law/reciprocal_detail.php or contact the North Dakota State Procurement Office at 701-328-2683.

7.16 Contract Negotiation

After final evaluation, the procurement officer may negotiate with the Offeror of the highest-ranked proposal. Negotiations, if held, will be within the scope of the request for proposals and limited to those items that would not have an effect on the ranking of proposals. If the highest-ranked Offeror fails to provide the necessary information for negotiations in a timely manner, or fails to negotiate in good faith, the State may terminate negotiations and negotiate with the Offeror of the next highest-ranked proposal. The State will hold a Go/No go meeting after 14 days of negotiations to determine whether negotiations with the highest-ranked Offeror should continue, or if the next highest-ranked Offeror should be notified. The decision to continue, or terminate the negotiations with the highest-ranked Offeror is solely at the discretion of the State and at that time may notify the next highest-ranked Offeror to commence negotiations within 48 hours.

If contract negotiations are commenced, they will be held in Bismarck at a date and time to be determined.

If contract negotiations are held, the Offeror will be responsible for all cost including its travel and per diem expenses.

7.17 Failure to Negotiate

If the selected Offeror:

- fails to provide the information required to begin negotiations in a timely manner;
- fails to negotiate in good faith;
- indicates it cannot perform the contract within the budgeted funds available for the project; or
- if the Offeror and the State, after a good faith effort, cannot come to terms,

The State may terminate negotiations with the Offeror initially selected and commence negotiations with the next highest ranked Offeror.

7.18 Notice of Intent to Award - Offeror Notification of Selection

After the completion of contract negotiation the procurement officer will issue a written Notice of Intent to Award and send copies to all Offerors. The Notice of Intent Award will set out the names and addresses of all Offerors and identify the proposal selected for award. The scores and placement of other Offerors will not be part of the Notice of Intent to Award.

The successful Offeror named in the Notice of Intent to Award is advised not to begin work, purchase materials, or enter into subcontracts relating to the project until both the successful Offeror and the State sign the contract.

7.19 Protest and Appeal

North Dakota law provides that an interested party may protest a solicitation. If an interested party wishes to protest the content of this RFP, the protest must be received, in writing, by the

procurement officer at least seven calendar days before the deadline for receipt of proposals.

An interested party may protest the award or proposed award of a contract. If an Offeror wishes to protest the award of a contract or proposed award of a contract, the protest must be received, in writing, by the procurement officer within seven calendar days after the date the Notice of Intent to Award was issued.

SECTION EIGHT ATTACHMENTS

8.01 Attachments

1. Evaluation Summary
2. Sample Terms and Conditions
3. Notice of Intent to Award
4. Sample Checklist
5. Existing Access and Backbone Circuits
6. STAGEnet Vision Statement

**ATTACHMENT 1
EVALUATION SUMMARY**

Name of RFP:																				
RFP Number																				
Vendor Being Evaluated:																				
Evaluators Names:																				
Date:																				
Technical Evaluation (Maximum 60 Points)	Maximum Points by Category	Score																		
1. Information Technology Solution	40																			
2. Product Support and Customer Service	10																			
3. Experience, Qualifications, and Financial Strength	10																			
Cost Evaluation (Maximum 40 Points) 1. Make adjustments for reciprocal preference, if necessary. See list of States Preference Laws: http://www.state.nd.us/csd/spo/resources.html Calculated points awarded for price. <table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td>Lowest Cost Proposal</td> <td style="text-align: center;">40 Points</td> </tr> <tr> <td>Within 5% of Lowest Cost Proposal</td> <td style="text-align: center;">35 Points</td> </tr> <tr> <td>Within 10% of Lowest Cost Proposal</td> <td style="text-align: center;">30 Points</td> </tr> <tr> <td>Within 15% of Lowest Cost Proposal</td> <td style="text-align: center;">25 Points</td> </tr> <tr> <td>Within 20% of Lowest Cost Proposal</td> <td style="text-align: center;">20 Points</td> </tr> <tr> <td>Within 25% of Lowest Cost Proposal</td> <td style="text-align: center;">15 Points</td> </tr> <tr> <td>Within 30% of Lowest Cost Proposal</td> <td style="text-align: center;">10 Points</td> </tr> <tr> <td>Within 35% of Lowest Cost Proposal</td> <td style="text-align: center;">5 Points</td> </tr> <tr> <td>40% or more over Lowest Cost Proposal</td> <td style="text-align: center;">0 Points</td> </tr> </table>	Lowest Cost Proposal	40 Points	Within 5% of Lowest Cost Proposal	35 Points	Within 10% of Lowest Cost Proposal	30 Points	Within 15% of Lowest Cost Proposal	25 Points	Within 20% of Lowest Cost Proposal	20 Points	Within 25% of Lowest Cost Proposal	15 Points	Within 30% of Lowest Cost Proposal	10 Points	Within 35% of Lowest Cost Proposal	5 Points	40% or more over Lowest Cost Proposal	0 Points		
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Within 20% of Lowest Cost Proposal	20 Points																			
Within 25% of Lowest Cost Proposal	15 Points																			
Within 30% of Lowest Cost Proposal	10 Points																			
Within 35% of Lowest Cost Proposal	5 Points																			
40% or more over Lowest Cost Proposal	0 Points																			
3. Cost	40																			
Total																				

ATTACHMENT 2

SAMPLE TERMS AND CONDITIONS

1. **TERMINATION FOR CAUSE**

The STATE by written notice of default to the CONTRACTOR may terminate the whole or any part of this contract:

- 1) If the CONTRACTOR fails to provide services required by this contract within the time specified or any extension agreed to by the STATE; or
- 2) If the CONTRACTOR fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms.

The rights and remedies of the STATE provided in the above clause related to defaults by the CONTRACTOR are not exclusive and are in addition to any other rights and remedies provided by law or under this contract.

5. **FORCE MAJEURE**

CONTRACTOR shall not be held responsible for delay or default caused by fire, riot, acts of God or war if the event is beyond the CONTRACTOR's reasonable control and the CONTRACTOR gives notice to the STATE immediately upon occurrence of the event causing the delay or default or which is reasonably expected to cause a delay or default.

7. **MODIFICATION**

This contract constitutes the entire agreement between the parties. There are no understandings, agreements, or representations, oral or written, not specified within this contract. This contract may not be modified, supplemented or amended, in any manner, except by written agreement signed by both parties.

8. **SEVERABILITY**

If any term of this contract is declared by a court having jurisdiction to be illegal or unenforceable, the validity of the remaining terms shall not be affected, and, if possible, the rights and obligations of the parties are to be construed and enforced as if the contract did not contain that term.

9. **ASSIGNMENT AND SUBCONTRACTS**

CONTRACTOR may not assign or otherwise transfer or delegate any right or duty without the STATE's express written consent. However, the CONTRACTOR may enter into subcontracts provided that any such subcontract acknowledges the binding nature of this contract and incorporates this contract, including any attachments. CONTRACTOR is solely responsible for the performance of any subcontractor. CONTRACTOR shall not have the authority to contract for or incur obligations on behalf of the STATE.

10. NOTICE

All notices or other communications required under this contract shall be given by registered or certified mail and are complete on the date mailed when addressed to the parties at the following addresses:

_____ or _____

11. APPLICABLE LAW AND VENUE

This contract is governed by and construed in accordance with the laws of the State of North Dakota. Any action to enforce this contract must be brought in the District Court of Burleigh County, North Dakota.

12. SPOILIATION – NOTICE OF POTENTIAL CLAIMS

CONTRACTOR SHALL PROMPTLY NOTIFY STATE OF ALL POTENTIAL CLAIMS WHICH ARISE OR RESULT FROM THIS CONTRACT. CONTRACTOR SHALL ALSO TAKE ALL REASONABLE STEPS TO PRESERVE ALL PHYSICAL EVIDENCE AND INFORMATION WHICH MAY BE RELEVANT TO THE CIRCUMSTANCES SURROUNDING A POTENTIAL CLAIM, WHILE MAINTAINING PUBLIC SAFETY, AND GRANTS TO THE STATE THE OPPORTUNITY TO REVIEW AND INSPECT THE EVIDENCE, INCLUDING THE SCENE OF AN ACCIDENT.

13. INDEMNIFICATION

Contractor agrees to defend, indemnify, and hold harmless the state of North Dakota, its agencies, officers and employees (State), from claims resulting from the performance of the contractor or its agent, including all costs, expenses and attorneys' fees, which may in any manner result from or arise out of this agreement. The legal defense provided by Contractor to the State under this provision must be free of any conflicts of interest, even if retention of separate legal counsel for the State is necessary. Contractor also agrees to defend, indemnify, and hold the State harmless for all costs, expenses and attorneys' fees incurred in establishing and litigating the indemnification coverage provided herein. This obligation shall continue after the termination of this agreement.

14. INSURANCE

Contractor shall secure and keep in force during the term of this agreement and Contractor shall require all subcontractors, prior to commencement of an agreement between Contractor and the subcontractor, to secure and keep in force during the term of this agreement, from insurance companies, government self-insurance pools or government self-retention funds, authorized to do business in North Dakota, the following insurance coverages:

- 1) Commercial general liability, including premises or operations, contractual, and products or completed operations coverages (if applicable), with minimum liability limits of \$250,000 per person and \$1,000,000 per occurrence.
- 2) Automobile liability, including Owned (if any), Hired, and Non-Owned automobiles, with minimum liability limits of \$250,000 per person and \$1,000,000 per occurrence.
- 3) Workers compensation coverage meeting all statutory requirements. The policy shall provide coverage for all states of operation that apply to the performance of this contract.

- 4) Professional errors and omissions, including a three year "tail coverage endorsement," with minimum liability limits of \$1,000,000 per occurrence and in the aggregate.

The insurance coverages listed above must meet the following additional requirements:

- 1) Any deductible or self-insured retention amount or other similar obligation under the policies shall be the sole responsibility of the Contractor.
- 2) This insurance may be in policy or policies of insurance, primary and excess, including the so-called umbrella or catastrophe form and must be placed with insurers rated "A-" or better by A.M. Best Company, Inc., provided any excess policy follows form for coverage. Less than an "A-" rating must be approved by the State. The policies shall be in form and terms approved by the State.
- 3) The State will be defended, indemnified, and held harmless to the full extent of any coverage actually secured by the Contractor in excess of the minimum requirements set forth above. The duty to indemnify the State under this agreement shall not be limited by the insurance required in this agreement.
- 4) The State of North Dakota and its agencies, officers, and employees (State) shall be endorsed on the commercial general liability policy, including any excess policies (to the extent applicable), as additional insured. The State shall have all the benefits, rights and coverages of an additional insured under these policies.
- 5) The insurance required in this agreement, through a policy or endorsement, shall include:
 - a) a "Waiver of Subrogation" waiving any right to recovery the insurance company may have against the State;
 - b) a provision that the policy and endorsements may not be canceled or modified without thirty days' prior written notice to the undersigned State representative;
 - c) a provision that any attorney who represents the State under this policy must first qualify as and be appointed by the North Dakota Attorney General as a Special Assistant Attorney General as required under N.D.C.C. § 54-12-08;
 - d) a provision that Contractor's insurance coverage shall be primary (i.e. pay first) as respects any insurance, self-insurance or self-retention maintained by the state and that any insurance, self-insurance or self-retention maintained by the State shall be in excess of the Contractor's insurance and shall not contribute with it;
 - e) cross liability/severability of interest for all policies and endorsements;
- 6) The legal defense provided to the State under the policy and any endorsements must be free of any conflicts of interest, even if retention of separate legal counsel for the State is necessary.
- 7) The Contractor shall furnish a certificate of insurance to the undersigned State representative prior to commencement of this agreement. All endorsements shall be provided as soon as practicable.

Failure to provide insurance as required in this agreement is a material breach of contract entitling the State to terminate this agreement immediately.

15. ATTORNEY FEES

In the event a lawsuit is instituted by the STATE to obtain performance due of any kind under this contract, and the STATE is the prevailing party, CONTRACTOR shall, except when prohibited by N.D.C.C. § 28-26-04, pay the STATE's reasonable attorney fees and costs in connection with the lawsuit.

16. ALTERNATIVE DISPUTE RESOLUTION – JURY TRIAL

The STATE does not agree to any form of binding arbitration, mediation, or other forms of mandatory alternative dispute resolution. The parties have the right to enforce their rights and remedies in judicial proceedings. The STATE does not waive any right to a jury trial.

17. CONFIDENTIALITY

CONTRACTOR agrees not to use or disclose any information it receives from the STATE under this contract that the STATE has previously identified as confidential or exempt from mandatory public disclosure except as necessary to carry out the purposes of this contract or as authorized in advance by the STATE. The STATE agrees not to disclose any information it receives from CONTRACTOR that the CONTRACTOR has previously identified as confidential and which the STATE determines in its sole discretion is protected from mandatory public disclosure under a specific exception to the North Dakota open records law, N.D.C.C. § 44-04-18. The duty of STATE and CONTRACTOR to maintain confidentiality of information under this section continues beyond the term of this contract, or any extensions or renewals of it.

18. COMPLIANCE WITH PUBLIC RECORDS LAW

CONTRACTOR understands that, except for disclosures prohibited in Section 17, the STATE must disclose to the public upon request any records it receives from CONTRACTOR. CONTRACTOR further understands that any records which are obtained or generated by the CONTRACTOR under this contract, except for records that are confidential under Section 17, may, under certain circumstances, be open to the public upon request under the North Dakota open records law. CONTRACTOR agrees to contact the STATE immediately upon receiving a request for information under the open records law and to comply with the STATE's instructions on how to respond to the request.

19. WORK PRODUCT, EQUIPMENT AND MATERIALS

All work product, equipment or materials created or purchased under this contract belong to the STATE and must be delivered to STATE at STATE's request upon termination of this contract. CONTRACTOR agrees that all materials prepared under this contract are "works for hire" within the meaning of the copyright laws of the United States and assigns to STATE all rights and interests CONTRACTOR may have in the materials it prepares under this contract, including any right to derivative use of the material. CONTRACTOR shall execute all necessary documents to enable STATE to protect its rights under this section.

20. INDEPENDENT ENTITY

CONTRACTOR is an independent entity under this contract and is not a STATE employee for any purpose, including but not limited to the application of the Social Security Act, the Fair Labor Standards Act, the Federal Insurance Contribution Act, the North Dakota Unemployment Compensation Law and the North Dakota Workers' Compensation Act. CONTRACTOR retains sole and absolute discretion in the manner and means of carrying out the CONTRACTOR's activities and responsibilities under this contract, except to the extent specified in this contract.

21. NONDISCRIMINATION AND COMPLIANCE WITH LAWS

CONTRACTOR agrees to comply with all applicable laws, rules, regulations and policies, including but not limited to those relating to nondiscrimination, accessibility and civil rights. CONTRACTOR agrees to timely file all required reports, make required payroll deductions, and timely pay all taxes and premiums owed, including but not limited to sales and use taxes and unemployment compensation and workers' compensation premiums. CONTRACTOR shall have and keep current at all times during the term of this contract all licenses and permits required by law.

22. STATE AUDIT

All records, regardless of physical form, and the accounting practices and procedures of CONTRACTOR relevant to this contract are subject to examination by the North Dakota State Auditor or the Auditor's designee. CONTRACTOR will maintain all such records for at least three years following completion of this contract.

23. PREPAYMENT

The STATE will not make any advance payments before performance by the CONTRACTOR under this contract.

ATTACHMENT 3
NOTICE OF INTENT TO AWARD
STATE OF NORTH DAKOTA
Information Technology Department
600 E Boulevard Ave, Dept 112
Bismarck, ND 58505-0100
Telephone 701-328-1002
Fax 701-328-3000

DATE

NOTICE OF INTENT TO AWARD

Request for Proposal (RFP) STAGEnet Transport Services RFP Number 112-0502 was issued by the Information Technology Department of the State of North Dakota on July 8, 2005.

The following vendors submitted proposals in response to the RFP:

LIST NAMES AND ADDRESSES OF ALL OFFERORS THAT SUBMITTED PROPOSALS OR INCLUDE AS AN ATTACHMENT.

A committee evaluated the proposals based upon the criteria stated in the RFP to select the Offeror that submitted the most advantageous proposal. We announce our intent to award a contract to ***NAME OF SUCCESSFUL OFFEROR.***

The successful Offeror is instructed not to begin work, purchase materials, or enter into subcontracts relating to the project until both the recipient and the State sign the contract.

An Offeror may protest this Notice of Intent to Award by submitting a written protest to the procurement officer within seven calendar days after the date of this notice.

On behalf of the Information Technology Department, thank you for your efforts in preparing a proposal in response to this solicitation. We appreciate your interest in doing business with the State of North Dakota, and your company will remain our Offerors list for any future solicitations of a similar nature.

If you have any questions, please feel free to contact me at (701) 328-1002.

Sincerely,

Brandy Peterson

Procurement Officer

ATTACHMENT 4
SAMPLE CHECKLIST

- Contact the procurement officer with a letter of interest (section 1.12).
- Submit any questions, comments, or requests for clarification to the procurement officer by the deadline for submission of questions (section 1.03 and 1.06).
- Review the Attachment 2 and state any objections to any of the provisions in the Sample Terms and Conditions prior to the deadline for submission of questions (section 1.03 and 1.06).
- Become an approved vendor on the State's Offeror's list or verify that the Offeror is already on the list (section 1.07).
- Attend the Offeror's conference (section 1.08).
- Provide conformation of the Offeror's ability to meet the requirements of section 3.03 and 3.04 and the required information.
- Be sure an individual authorized to bind the Offeror to the provisions of the RFP signs the proposal (section 7.01).
- Comply with the North Dakota Secretary of State and the North Dakota State Procurement Office Registration requirements prior to the deadline stated in the RFP (section 7.04).
- Comply with minimum requirements and supply the required information in section 3.05.
- Comply with professional licensing requirements, and provide copies of certifications, if required.
- Provide the information about the qualifications of the firm and individuals that will be working on the project.
- Identify all known federal requirements that apply to the proposal, the evaluation, or the contract (section 3.06).
- Provide the required number of references (section 3.05).
- Provide a valid Vendor Tax Identification Number (section 4.10).
- Provide a performance bond per section 4.24.
- Provide all of the required responses in the section 6.
- Attend the Offeror's conference (section 1.08).

Provide all documents or materials that must be submitted with the RFP. Identify and label any sections of the proposal you feel contain confidential information.

ATTACHMENT 5
Existing Access and Backbone Circuits

Location Name	Address	City	Circuit Type	EDLS rated
Adams Public School	5th Ave NE	Adams	ATM T1	EDLS
Adams DOT Section Office	804 1st Av	Adams	DSL	
Alexander Public Schools	School St	Alexander	ATM T1 x 2	EDLS
Sims Public Schools	205 Fanney St	Almont	ATM T1	EDLS
Slope County Courthouse	S Main	Amidon	ATM T1	
Anamoose Public School	706 3rd St W	Anamoose	ATM T1	EDLS
Aneta Public Library	Main St & Hwy 32	Aneta	DSL	
Turtle River State Park	3084 Park Ave	Arvilla	Pt-to-Pt Wireless	
McIntosh County Courthouse & SS	112 1st St NE	Ashley	ATM T1	
Ashley DOT Section Office	520 7th St SW	Ashley	DSL	
Golden Valley County Courthouse	150 1st Av SE	Beach	ATM T1	
Beach High School	600 N Central Ave	Beach	ATM T1	EDLS
Beach DOT Section Office	16841 Old Hwy 10	Beach	DSL	
Exit #1 Rest Area at Beach	I94 Exit #1	Beach	DSL	
Golden Valley County Social Services	70 SE 1st St	Beach	Fiber to ATM T1 site	
Turtle Mountain Comm. College	BIA Road #7	Belcourt	ATM DS3	
Ojibwa Indian School	Highway 5 West	Belcourt	ATM T1	EDLS
Turtle Mt Comm High School	Hwy 5 E	Belcourt	ATM T1 x 2	
BIA Law Enforcement Center	Route 7 Fish Lake Road	Belcourt	DSL	
Belfield Public School	306 NE 3rd	Belfield	ATM T1	EDLS
Berthold Public Schools	401 4th St NE	Berthold	ATM T1 x 2	EDLS
Beulah Public Library	116 N Central Av	Beulah	ATM T1	EDLS
Beulah Motor Vehicle	120 N Central Av	Beulah	ATM T1	
Missouri Slope Medical Arts Clinic	1101 3rd Av NW	Beulah	DSL	
Beulah Job Service	119 E Main St	Beulah	DSL	
Beulah DOT Section Office	205 Hwy 49 S	Beulah	DSL	
Beulah Drivers License	250 7th St NE	Beulah	Frame Relay 56k	
Midkota Elementary School	203 Curtis Av W	Binford	ATM T1	EDLS
Bisbee-Egeland High School	204 3rd Ave W	Bisbee	ATM T1	EDLS
ITD at Dakota Carrier Building	1615 Capitol Way	Bismarck	ATM DS3	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC12	
Fraine Barracks, Building	432 Fraine Barracks	Bismarck	ATM OC3	

Location Name	Address	City	Circuit Type	EDLS rated
#50	Road			
Driscoll Radio Tower	432 Fraire Barracks Road	Bismarck	ATM DS1	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC3	EDLS
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC3	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC3	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC3	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM OC3	
Western Plains Rgnl Treatment Cntr	1227 35th St N	Bismarck	ATM T1	EDLS
Housing and Finance	1500 E Capitol Av	Bismarck	ATM T1	
Missouri River Correctional Center	1800 48th Av SW	Bismarck	ATM T1	
Army Aviation Support Facility	3400 Yegen Road	Bismarck	ATM T1	
ITD BISMARCK	420 N 4th Street	Bismarck	ATM T1	EDLS
ITD BISMARCK	420 N 4th Street	Bismarck	ATM T1	
Fraire Barracks, Building #50	432 Fraire Barracks Road	Bismarck	ATM T1	
Surplus Property	Igoe Industrial Park , Bldg # 12, 1278 Hemlock St	Bismarck	ATM T1	
Retirement & Investment Office	1930 Burnt Boat Dr	Bismarck	ATM T1 ?????	
Raymond J Bohn Armory	4200 E Divide Av	Bismarck	ATM T1 x 2	
Camp Hancock maintenance shop	117 E Main Ave	Bismarck	Cable	
Krista Andrews residence (DHS)	1209 Prospect Pl	Bismarck	Cable	
Dick Dever	1416 Eastwood St	Bismarck	Cable	
Work Force Safety & Insurance	1600 E Century Av	Bismarck	Cable	
Lawrence Klemin	1709 Montego Drive	Bismarck	Cable	
Mark Meier	1713 S. 3rd Street	Bismarck	Cable	
ND Career Resource Network	1720 Burnt Boat Dr, Suite 102	Bismarck	Cable	
Janet Seaworth residence (OAH)	1733 Valley Dr	Bismarck	Cable	
David Wieler	177 Stuttgart Drive	Bismarck	Cable	
Eric Kringstad	1807 N 7th St	Bismarck	Cable	
Ralph Kilzer	1982 Mesquite Loop	Bismarck	Cable	
DOCR Transition Center	2001 Lee Ave	Bismarck	Cable	
US Probation & Pre-trial	220 E Rosser Av, Rm 154	Bismarck	Cable	
Environmental Training Center (Health Dept)	2639 East Main Ave	Bismarck	Cable	
Education Standards &	2718 Gateway Ave,	Bismarck	Cable	

Location Name	Address	City	Circuit Type	EDLS rated
Practices Board	Suite 303			
State Auditors Office (Royalty Audit)	425 N 5th St	Bismarck	Cable	
Mark Dosch	509 Cottowood Loop	Bismarck	Cable	
Patty Wanner residence (DHS)	524 N 33rd St	Bismarck	Cable	
Waste Water Treatment Plant	601 London Ave	Bismarck	Cable	
NDUS at Kirkwood Office Tower	919 S 7th St, Suite 300	Bismarck	Cable	
State Auditors Office	925 Basin Ave	Bismarck	Cable	
Connie Pederson residence (DHS)	9405 Oak Dr	Bismarck	Cable	
ITD at Dakota Carrier Building	1615 Capitol Way	Bismarck	Cable X2	
ITD Computer Rm at St Capitol	600 E Boulevard Ave	Bismarck	Cable X3	
Work Force Safety & Insurance	1601 E Century Av	Bismarck	Direct Fiber	
Association of Counties	1661 Capitol Way	Bismarck	Direct Fiber	
State Capitol	600 E Boulevard Av	Bismarck	Direct Fiber	
State Capitol	600 E Boulevard Av	Bismarck	Direct Fiber	
Bismarck Dist. DOT Office	218 Airport Rd	Bismarck	DSL	
Dwight Wrangham	301 52nd Street	Bismarck	DSL	
Margaret Sitte	808 Avenue C West	Bismarck	DSL	
Game and Fish Department	100 N Bismarck Expressway	Bismarck	Fiber	
Job Service	1000 E Divide	Bismarck	Fiber	
Oil & Gas Division	1016 E Calgary Ave	Bismarck	Fiber	
Central Fire Station	1020 E Central Av	Bismarck	Fiber	
BCI Task Force	1025 N 3rd St	Bismarck	Fiber	
Governor's residence	1131 N 4th St	Bismarck	Fiber	
Health Department	1200 Missouri Av	Bismarck	Fiber	
Law Enforcement Training Academy	1320 Schafer St	Bismarck	Fiber	
Bismarck State College	1500 Edwards Av	Bismarck	Fiber	
Bismarck Job Service	1600 E Century Av	Bismarck	Fiber	
Land Department	1709 N 9th St	Bismarck	Fiber	
Northbrook Mall	1929 N Washington	Bismarck	Fiber	
Banking & Finance	2000 Schafer St	Bismarck	Fiber	
DOT Dist Office	218 Airport Rd	Bismarck	Fiber	
911 Center	2301 University Dr, Bldg 21	Bismarck	Fiber	
Airport Administration Building	2301 University Dr, Bldg 22	Bismarck	Fiber	
Health Department Crime Lab	2635 E Main	Bismarck	Fiber	

Location Name	Address	City	Circuit Type	EDLS rated
Provident Life Building	316 N 5th St	Bismarck	Fiber	
WFSI at Interiors by France	322 N 26th St	Bismarck	Fiber	
United Tribes Technical Center	3315 University Drive	Bismarck	Fiber	
Burleigh County Extension Office	3715 E Bismarck Exprsswy	Bismarck	Fiber	
Wells Fargo Bank Bldg	400 E Broadway	Bismarck	Fiber	
City Center Plaza	418 E Broadway	Bismarck	Fiber	
BCI - Bismarck	4205 State St	Bismarck	Fiber	
Insurance Department	425 N 5th St	Bismarck	Fiber	
Attorney General	500 N 9th St	Bismarck	Fiber	
University of Mary - Butler Center	505 S 7th St	Bismarck	Fiber	
SW Medical Education Center	515 E Broadway Av	Bismarck	Fiber	
Bismarck Public Library	515 N 5th St	Bismarck	Fiber	
WC Human Service Center	600 S 2nd St	Bismarck	Fiber	
Bismarck Civic Center	601 E Sweet Av	Bismarck	Fiber	
Public Works Building	601 S 26th St	Bismarck	Fiber	
State Library	604 E Boulevard Av	Bismarck	Fiber	
Maintenance shop / Fleet dispatch	605 E Boulevard Av	Bismarck	Fiber	
Department of Transportation	608 E Boulevard Av	Bismarck	Fiber	
State Historical Society	612 E Boulevard Av	Bismarck	Fiber	
Law Enforcement Center	700 S 9th St	Bismarck	Fiber	
University of Mary	7500 University Drive	Bismarck	Fiber	
State Office Building	900 E Boulevard Av	Bismarck	Fiber	
State Penitentiary	East of City	Bismarck	Fiber	
Expressway Fire Station	Expressway Av / Airport Rd	Bismarck	Fiber	
State Radio & DEM	Fraine Barracks Rd	Bismarck	Fiber	
Bank of North Dakota	700 E Main Av	Bismarck	Fiber & ATM T1	
Bank of North Dakota	700 E Main Av	Bismarck	Fiber & ATM T1	
Bank of North Dakota	700 E Main Av	Bismarck	Fiber & ATM T1	
Bank of North Dakota	700 E Main Av	Bismarck	Fiber & ATM T1	
Bank of North Dakota	700 E Main Av	Bismarck	Fiber & ATM T1	
Work Force Safety & Insurance	1601 E Century Av	Bismarck	Fiber & Cable	
Work Force Safety & Insurance	1601 E Century Av	Bismarck	Fiber & Cable	
State Capitol	600 E Boulevard Av	Bismarck	Fiber & DS3	
State Capitol	600 E Boulevard Av	Bismarck	Fiber & DS3	
State Capitol	600 E Boulevard Av	Bismarck	Fiber & OC3	
State Capitol	600 E Boulevard Av	Bismarck	Fiber & OC3	
State Capitol	600 E Boulevard Av	Bismarck	Fiber & OC3	

Location Name	Address	City	Circuit Type	EDLS rated
State Capitol	600 E Boulevard Av	Bismarck	Fiber & OC3	
ITD at Dakota Carrier Building	1615 Capitol Way	Bismarck	Frame Relay 56k	
State Capitol	600 E Boulevard Av	Bismarck	Frame Relay 56k	
State Capitol	600 E Boulevard Av	Bismarck	Frame Relay 56k	
NDSU Extension Service	2718 Gateway Ave, Rm 104	Bismarck	Pt-to-Pt Wireless	
Apple Creek Rest Area Eastbound	I-94 8 miles east of Bismarck	Bismarck	Pt-to-Pt Wireless	
Apple Creek Rest Area Westbound	I-94 8 miles east of Bismarck	Bismarck	Pt-to-Pt Wireless	
MSU - Bottineau	105 Simrall Blvd	Bottineau	ATM DS3	
HQ Det 1 132nd Quartermaster Co.	115 W 6th St	Bottineau	ATM T1	
Bottineau Public Schools	301 Brander St	Bottineau	ATM T1	EDLS
Bottineau Cnty Courthouse, SS, DC	314 5th St W	Bottineau	ATM T1	
Lake Metigoshe State Park	#2 Lake Metigoshe St Park	Bottineau	DSL	
Bottineau DOT Section Office	9840 Lake Rd	Bottineau	DSL	
Bottineau Drivers License	115 6th St W	Bottineau	Frame Relay 56k	
Burke County Courthouse & SS	103 Main St SE	Bowbells	ATM T1	
Bowbells Public Schools	200 Madison	Bowbells	ATM T1	
Bowbells DOT Section Office	506 Centennial Dr	Bowbells	DSL	
Bowman High School	102 8th Av SW	Bowman	ATM T1	EDLS
Bowman Cnty Courthouse, SS, & DC	104 W 1st	Bowman	ATM T1	
Bowman DOT Section Office	85-07 147th Av SW	Bowman	DSL	
Bowman Drivers License	100 1st St E	Bowman	Frame Relay 56k	
Margaret Fraase Public Library	204 Wilcox Av N	Buffalo	DSL	
Burlington-Des Lacs Elem School	301 Wallace	Burlington	ATM T1	
Central Valley Public School	Hwy 81	Buxton	ATM T1	EDLS
Border Central Public School	Hwy 20 N	Calvin	ATM T1	EDLS
Towner County Courthouse & SS	315 2nd St	Cando	ATM T1	
HQ 132nd Quartermaster Co.	408 5th Av	Cando	ATM T1	
Cando Public School	418 2nd Ave	Cando	ATM T1	EDLS
Cando DOT Section Office	7411 68th Av NE	Cando	DSL	
Cannon Ball Elementary	7080 8th Ave	Cannon Ball	ATM T1	EDLS

Location Name	Address	City	Circuit Type	EDLS rated
School				
Carrington High School	100 3rd Ave S	Carrington	ATM T1	EDLS
HQ Det 2 Co A 141 Bn	1000 N 1st St	Carrington	ATM T1	
Foster Co Courthouse, SS, & DL	1000 N Central Av	Carrington	ATM T1	
Carrington Research Extension Center	663 Highway 281 N	Carrington	ATM T1	
Carrington DOT const. office	331 3rd St N	Carrington	DSL	
Carrington DOT Section Office	6734 Hwy 200	Carrington	DSL	
Grant Cnty Courthouse, SS, & DL	101 N Main St	Carson	ATM T1	
Roosevelt Public School	210 2nd Ave W	Carson	ATM T1	
Central Cass Public School	802 5th St N	Casselton	ATM T1 x 2	EDLS
Lavonne Pietsch	805 Morningside Drive	Casselton	Cable	
Casselton DOT const. field office	4 Langer Ave N	Casselton	Pt-to-Pt Wireless	
Casselton DOT Section Office	15482 37th St SE	Casselton	Satellite	
HQ 134th Quartermaster Co.	114 E Main	Cavalier	ATM T1	
Pembina County Courthouse	306 Dakota St W	Cavalier	ATM T1	
Cavalier Public Library	106A West 2nd Av S	Cavalier	DSL	
Icelandic State Park	13571 Highway 5	Cavalier	DSL	
IPAT	200 Bjornson Drive	Cavalier	DSL	
Cavalier DOT Section Office	9393 138th Av NE	Cavalier	DSL	
Tom Trenbeath	p.o	Cavalier	DSL	
Pembina County Social Services	300 W Broadway Rd	Cavalier	Fiber to ATM T1 site	
Oliver County Courthouse & SS	115 Main St	Center	ATM T1	
Cross Ranch State Park	1403 River Road	Center	DSL	
Center DOT Section Office	3738 Hwy 25	Center	DSL	
Griggs Co Central High School	1207 Foster Ave NE	Cooperstown	ATM T1	EDLS
Griggs Co Courthouse & SS	808 Rollin Av	Cooperstown	ATM T1	
Cooperstown DOT Section Office	113513rd St NE	Cooperstown	DSL	
Griggs County Library	902 Burrel Av SE	Cooperstown	DSL	
Courtenay DOT Section Office	9160 Hwy 20 SE	Courtenay	DSL	
Divide County Courthouse, SS, & DL	300 2nd Av N	Crosby	ATM T1	

Location Name	Address	City	Circuit Type	EDLS rated
Divide County High School	605 SE 4th	Crosby	ATM T1	EDLS
Crosby DOT Section Office	NE Corner Jct 5 &42nd St	Crosby	DSL	
Des Lacs-Burlington High School	County Hwy 10	Des Lacs	ATM T1	EDLS
Lake Region State College	1801 College Dr N	Devils Lake	ATM DS3	
Devils Lake Highway Patrol	103 S College Dr	Devils Lake	ATM T1	
Lake Region CSE	206 5th St	Devils Lake	ATM T1	
Devils Lake Motor Vehicle	207 Hwy 2 SW	Devils Lake	ATM T1	
Devils Lake Job Service	301 S College Dr	Devils Lake	ATM T1	
Devils Lake DOT	306 S 6th St	Devils Lake	ATM T1	
Devils Lake Parole & Probation	310 Walnut St W	Devils Lake	ATM T1	
Camp Grafton	4417 Hwy 20	Devils Lake	ATM T1	
Camp Grafton	4417 Hwy 20	Devils Lake	ATM T1	
Ramsey County Courthouse, SS, DC	520 4th Av NE	Devils Lake	ATM T1	
Lake Region District Health Unit	524 4th Av #9	Devils Lake	ATM T1	
Devils Lake Drivers License	COC Office, 1220 Hwy 2 E	Devils Lake	ATM T1	
School for the Deaf	1401 College Dr	Devils Lake	ATM T1 x 2	EDLS
Devils Lake High School	1601 College Dr N	Devils Lake	ATM T1 x 2	EDLS
Lake Region HSC	340 Walnut St W	Devils Lake	ATM T1 x 2	
Camp Grafton	4417 Hwy 20	Devils Lake	ATM T1 x 2	
Devils Lake DJS	304 4th St	Devils Lake	Cable	
Grahams Island State Park	152 S Duncan Rd	Devils Lake	DSL	
Devils Lake DOT Section Office	1905 Schwan Av NW	Devils Lake	DSL	
Devils Lake DOT Construction Office	306 S 6th St	Devils Lake	DSL	
Devils Lake Game and Fish	7928 45th St NE	Devils Lake	DSL	
Dickinson State University	291 Campus Drive	Dickinson	ATM DS3	EDLS
Dickinson State University	291 Campus Drive	Dickinson	ATM DS3	
Dickinson Research Extension Center	1133 State Ave	Dickinson	ATM T1	
Dickinson Voc Rehab	117 1st St E	Dickinson	ATM T1	
Dickinson Parole & Probation, BCI, Fire Marshall, & CSE	135 Sims St Suite 205	Dickinson	ATM T1	
Dickinson Public Library	139 3rd St W	Dickinson	ATM T1	EDLS
Dickinson DOT / DL / MV / HP	1700 3rd Av W	Dickinson	ATM T1	
Southwestern District Health Unit	2869 3rd Av W	Dickinson	ATM T1	

Location Name	Address	City	Circuit Type	EDLS rated
HQ Co C 164 Bn	46 Museum Dr	Dickinson	ATM T1	
Dickinson Law Enforcement Center	66 Museum Dr	Dickinson	ATM T1	
Dickinson Job Service	66 Osborn Dr	Dickinson	ATM T1	
Stark County SS	664 12th St W	Dickinson	ATM T1	
Dickinson Trinity High School	810 Empire Road	Dickinson	ATM T1	EDLS
Stark County Courthouse	53 3rd St E	Dickinson	ATM T1 x 2	
Badlands HSC	Pulver Hall, 291 Campus Dr	Dickinson	ATM T1 x 2	
Dickinson Game and Fish	225 30th Ave SW	Dickinson	DSL	
K.I.D.S. (DHS)	235 Sims, Suite 16	Dickinson	DSL	
Dickinson Oil & Gas	314 3rd Av W	Dickinson	DSL	
Nancy Dennis Johnson	1308-A Empire Road	Dickinson	DSL	
Frances Wald	433 7th St E	Dickinson	DSL	
Dodge Public Schools	301 Central Av	Dodge	ATM T1	
Drake Public School	411 Main	Drake	ATM T1	EDLS
Drayton Public School	108 S 5th St	Drayton	ATM T1	EDLS
Drayton DOT Section Office	411 Hwy 66 W	Drayton	DSL	
Alexander Henry Rest Area	I-29 mile point 179	Drayton	DSL	
Dunseith High School	1st St SW	Dunseith	ATM T1	EDLS
Dunseith Day Elementary School	Hwy 3 N	Dunseith	ATM T1	EDLS
Eckelson DOT Field Office	10125 36th St SE	Eckelson	Dial-Up	
Edgeley Public Schools	307 6th St	Edgeley	ATM T1	EDLS
HQ Co A 141 Bn	508 1st Av	Edgeley	ATM T1	
Edgeley DOT Section Office	402 7th Ave E	Edgeley	DSL	
Edgeley Public Library	530 Main	Edgeley	DSL	
Edinburg Public School	600 5th St S	Edinburg	ATM T1	EDLS
Edmore Public School	706 N Main St	Edmore	ATM T1	EDLS
Elgin/New Leipzig Public Schools	110 W Street N	Elgin	ATM T1	EDLS
Dickey Co Courthouse	309 N 2nd	Ellendale	ATM T1	
Dickey Co SS	Hwy 281 N	Ellendale	ATM T1	
Ellendale Public Schools	321 1st St N	Ellendale	ATM T1 x 2	EDLS
Ellendale Public Library	1st Av S	Ellendale	DSL	
Ellendale DOT Section Office	8885 97th St SE	Ellendale	DSL	
Emerado Public Schools	Main	Emerado	ATM T1	EDLS
Enderlin Public School	410 Bluff St	Enderlin	ATM T1	EDLS
Lewis and Clark State Park	4904 119th Road	Epping	DSL	
ITD FARGO	3239 39th Street	Fargo	ATM DS3	EDLS
ITD FARGO	3239 39th Street	Fargo	ATM OC12	
ITD FARGO	3239 39th Street	Fargo	ATM OC3	

Location Name	Address	City	Circuit Type	EDLS rated
ITD FARGO	3239 39th Street	Fargo	ATM OC3	EDLS
ITD FARGO	3239 39th Street	Fargo	ATM OC3	
ITD FARGO	3239 39th Street	Fargo	ATM OC3	
ITD FARGO	3239 39th Street	Fargo	ATM OC3	
Fargo P&P	115 N University Dr	Fargo	ATM T1	
Hector Air Field	1400 28th Av N, Bldg #218	Fargo	ATM T1	
UND Medical Education Center	1919 Elm St N	Fargo	ATM T1	
FM Ambulance	2215 18th St S	Fargo	ATM T1	
Fargo Residential Center	3314 33rd Av S	Fargo	ATM T1	EDLS
Fargo Armory	3920 31st St N	Fargo	ATM T1	
Fargo Armory	3920 31st St N	Fargo	ATM T1	
Fargo BCI	606 1st Av N	Fargo	ATM T1	
Fargo Motor Vehicle	855 45th St S #A2	Fargo	ATM T1	
SE HSC Off Main	9 S 9th St	Fargo	ATM T1	
Rosellen Sand residence	1012 N 12 St	Fargo	Cable	
ND Veterans Affairs	1411 32nd St S	Fargo	Cable	
Dept of Financial Institutions	3310 Fiechtner Dr	Fargo	Cable	
Federal Building (FBI, ATF, & INS)	657 2nd Ave N, Room 446	Fargo	Cable	
Drug Enf Admin (Case Plaza Bldg)	1 N 2nd St, Suite 302	Fargo	DSL	
Troyd Geist residence	1342 N Broadway, Apt 216	Fargo	DSL	
Veterans Affairs Medical Center	2101 N Elm St	Fargo	DSL	
IPAT	3509 Interstate Blvd	Fargo	DSL	
Mary Eckstrom	1450 River Road S	Fargo	DSL	
Tim Mathern	429 16th Ave South	Fargo	DSL	
Al Carlson	63 Prairiewood Crossing	Fargo	DSL	
John Seyverson	6450 13th St N	Fargo	DSL	
Randy Boehning	825 42nd St SW #211	Fargo	DSL	
SE Human Service Center	2624 9th Av SW	Fargo	Fiber	
Division of Juvenile Services	1112 Nodak Dr SW	Fargo	Fiber	
Job Service	1350 32nd St S	Fargo	Fiber	
Butler Building	1351 Page Dr	Fargo	Fiber	
Work Force Safety & Insurance	3209 Fiechtner Dr	Fargo	Fiber	
State Auditor	3217 Fiechtner Dr SW	Fargo	Fiber	
Tax Department	3309 Fiechtner Dr	Fargo	Fiber	
Cass County Jail	450 34th St. S	Fargo	Fiber	
Department of Transportation	503 38th St SW	Fargo	Fiber	

Location Name	Address	City	Circuit Type	EDLS rated
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Fiber & ATM OC3	
ND State University	1301 12th Av N	Fargo	Frame Relay 56k	
IDEAONE Co-Locate	409 1st Avenue N	Fargo	Frame Relay 56k	
Fessenden Public School	500 N 2nd St	Fessenden	ATM T1	EDLS
Wells County Courthouse	700 Railway St N	Fessenden	ATM T1	
Fessenden DOT Section Office	1570 43rd Av E	Fessenden	DSL	
Wells County Social Services	600 Railway St N	Fessenden	Fiber to ATM T1 site	
Steele Co Courthouse & SS	100 Washington Av	Finley	ATM T1	
Finley-Sharon Public School	201 3rd St	Finley	ATM T1	EDLS
Finley DOT Section Office	125 7th ST N	Finley	DSL	
Flasher Public School	206 3rd Ave E	Flasher	ATM T1	EDLS
Flasher DOT Section Office	6590 Co Rd 84	Flasher	DSL	
Fordville Public School	Main St	Fordville	ATM T1	EDLS
Sargent Co Courthouse & SS	355 Main St	Forman	ATM T1	
Forman DOT Section Office	9106 Hwy 32	Forman	DSL	
Forman Public Library	Main St	Forman	DSL	
Fort Ransom State Park	5981 Walt Hjelle Parkway	Fort Ransom	DSL	
Four Winds Comm High School	Hwy 57	Fort Totten	ATM T1	EDLS
Cankdeska Cikana Comm College	Main St	Fort Totten	ATM T1	
BIA Police Dept	106 2nd Av N	Fort Totten	DSL	
Fort Totten Job Service	405 2nd Av N	Fort Totten	DSL	
Fort Totten Historic Site	Building 14	Fort Totten	DSL	
Fort Yates Public School	105 Agency Ave N	Fort Yates	ATM T1	EDLS
Sitting Bull College	1341 92nd St	Fort Yates	ATM T1	
Sioux County Courthouse & SS	300 2nd Av	Fort Yates	ATM T1	
Standing Rock Comm Grant HS	Hwy 1806	Fort Yates	ATM T1	EDLS
Fort Yates Job Service	3 N Agency Av	Fort Yates	DSL	
BIA Police Dept	55 Proposal Av	Fort Yates	DSL	
Gackle-Streeter Public School	2nd Ave E	Gackle	ATM T1	EDLS

Location Name	Address	City	Circuit Type	EDLS rated
Gackle DOT Section Office	5429 Hwy 56	Gackle	DSL	
Garrison High School	51 NE 5th Ave	Garrison	ATM T1	EDLS
Fort Stevenson State Park	1252A 41st Av NW	Garrison	DSL	
Garrison Public Library	32 S Main	Garrison	DSL	
Garrison DOT Section Office	515 Hwy 37 SE	Garrison	DSL	
Security Forces Control Center	290 Steen Blvd, Bldg 103	GF Air Base	Cable	
Lake Region State College @ GFAB	344 Tuskegee Airmen Blvd	GF Air Base	Cable	
Security Forces Squadron	690 1st Av, Bldg 515, Rm 115	GF Air Base	Cable	
Pass & Registration at Main Gate	80 Steen Blvd, Bldg 812	GF Air Base	Cable	
Thomas Brusegaard	po	Gilby	DSL	
Glen Ullin City Hall	119 Main St S	Glen Ullin	DSL	
Glen Ullin DOT Section Office	4110 Co Rd 88	Glen Ullin	DSL	
Glenburn Public School	102 Raymond St	Glenburn	ATM T1	
Midkota High School	81 School Ave	Glenfield	ATM T1	EDLS
Lonetree Public Schools	304 Terrell Av	Golva	ATM T1	EDLS
Goodrich Public School	211 4th St	Goodrich	ATM T1	EDLS
HQ 133rd Quartermaster Co.	309 Hill Av	Grafton	ATM T1	
Grafton Motor Vehicle & D L	432 Hill Av	Grafton	ATM T1	
Walsh Co Courthouse & P&P	600 Cooper Av	Grafton	ATM T1	
Grafton Job Service	927 12th St W	Grafton	ATM T1	
Developmental Center	701 6th St W	Grafton	ATM T1 x 2	
Bill Kingsbury	143 Eastwood Drive	Grafton	Cable	
Gil Herbel	1439 LaVergne Ave	Grafton	Cable	
ND Fire Marshall	735 Hill Ave, Suite B	Grafton	Cable	
Harvey Tallackson	7039 141st Ave NE	Grafton	DSL	
Grafton DOT Section Office	333 Commerce St	Grafton	Pt-to-Pt Wireless	
Carnegie Regional Library	49 West 7th	Grafton	Pt-to-Pt Wireless	
Grand Forks Educational Center	2400 47th Av S	Grand Forks	(ATM T1 x 4)2	EDLS
Grand Forks Educational Center	2400 47th Av S	Grand Forks	(ATM T1 x 4)2	EDLS
University of ND	2655 2nd Av N	Grand Forks	ATM OC3 x 2	
Grand Forks HP	122 5th St	Grand Forks	ATM T1	
ND Tax Department	1407 S 24th Ave, Suite 328	Grand Forks	ATM T1	
Grand Forks Job Service	1501 28th Av S	Grand Forks	ATM T1	
Grand Forks Armory	1501 S 48th St	Grand Forks	ATM T1	

Location Name	Address	City	Circuit Type	EDLS rated
Grand Forks Armory	1501 S 48th St	Grand Forks	ATM T1	
Grand Forks Public Health	151 S 4th St	Grand Forks	ATM T1	
Grand Forks Motor Vehicle	1726 S Washington	Grand Forks	ATM T1	
Grand Forks DOT	2011 Washington St N	Grand Forks	ATM T1	
Grand Forks Public Library	2110 Library Circle	Grand Forks	ATM T1	EDLS
Grand Forks DOCR	212 S 4th St	Grand Forks	ATM T1	
Grand Forks BCI	215 N 3rd St	Grand Forks	ATM T1	
Work Force Safety & Insurance	2650 32nd Av S, Suite M	Grand Forks	ATM T1	
School for the Blind	500 Stanford Road	Grand Forks	ATM T1	EDLS
Grand Forks Co Crths & SS	151 S 4th St	Grand Forks	ATM T1 x 2	
NE HSC	151 S 4th St	Grand Forks	ATM T1 x 2	
Federal Bureau of Investigation	102 N 4th St, Room 304	Grand Forks	Cable	
Grand Forks County Highway Dept	1700 Columbia Rd N	Grand Forks	Cable	
Nick Hacker	2027 2nd ave N	Grand Forks	Cable	
US Border Patrol	2320 S Washington St	Grand Forks	Cable	
Grand Forks DJS	311 4th St S, Suite 113	Grand Forks	Cable	
Tom Potter	3625 Chestnut Street	Grand Forks	Cable	
Duaine Espegard	3649 Lynwood Circle	Grand Forks	Cable	
Joe Belcourt residence (DHS)	423 Chestnut St	Grand Forks	Cable	
Mary Dietrich	5302 W Maple Ave	Grand Forks	Cable	
Eloit Glassheim	619 N. 3rd Street	Grand Forks	Cable	
Ray Holmbert	621 High Plains Court	Grand Forks	Cable	
Lois Delmore	714 S. 22nd Street	Grand Forks	Cable	
National Guard Recruiting Center	1208 S Washington St	Grand Forks	DSL	
Duane R Dornheim	1407 10th Av S	Grand Forks	DSL	
Mark Owens	715 Belmont Rd	Grand Forks	DSL	
University of ND	2655 2nd Av N	Grand Forks	Frame Relay 56k	
Granville Public School	210 6th St SW	Granville	ATM T1	EDLS
Grenora Public School	402 Robinson St	Grenora	ATM T1	EDLS
Twin Buttes Elementary School	7997 7A St NW	Halliday	ATM T1	EDLS
Halliday DOT Section Office	400 3rd Av SE	Halliday	DSL	
Harvey High School	200 North St E	Harvey	ATM T1 x 2	EDLS
Harvey Job Service	119 9th St W	Harvey	DSL	
Harvey DOT Section Office	501 Jackson Av	Harvey	DSL	
Harvey Drivers License	120 W 8th St	Harvey	Frame Relay 56k	
Hatton Public Schools	503 4th St	Hatton	ATM T1	EDLS
Hazelton-Mof-Brad Public School	211 Hazel Ave	Hazelton	ATM T1	EDLS

Location Name	Address	City	Circuit Type	EDLS rated
Hazen Public Library	203 East Main	Hazen	ATM T1	EDLS
HQ Det 1 Co A 164 Bn	906 Sunrise Dr	Hazen	ATM T1	
Randy Christmann	401 3rd ave NE	Hazen	DSL	
Pat Galvin	621 3rd Ave Nw	Hazen	DSL	
Hebron City Hall	620 E Washington	Hebron	DSL	
Hettinger Research Extension Center	102 W Highway 12	Hettinger	ATM T1	
HQ Det 2 Co C 141 Bn	1207 4th Av S	Hettinger	ATM T1	
Adams County SS	402 Adams Av	Hettinger	ATM T1	
Adams County Courthouse	602 Adams Av	Hettinger	ATM T1	
Hettinger DOT Section Office	121 1st St N	Hettinger	DSL	
Hillsboro Public Schools	12 4th St NE	Hillsboro	ATM T1	EDLS
Trail Co Courthouse & SS	13 1st St NW	Hillsboro	ATM T1	
Hillsboro DOT Section Office	590 6th St NW	Hillsboro	DSL	
Elm River Rest Areas	I-29 mile point 98	Hillsboro	Pt-to-Pt Wireless	
Hope Public School	100 Bates Av	Hope	ATM T1	EDLS
Northern Cass Public School	16021 18th St SE	Hunter	ATM T1	EDLS
Pleasant Valley Public School	201 Miller Av	Hurdsfield	ATM T1	EDLS
Midway Public School	3202 33rd Ave NE	Inkster	ATM T1	EDLS
HQ Co B 141 Bn	212 3rd Av NE	Jamestown	ATM T1	
Organizational Maintenance Shop	Hwy 281 N	Jamestown	ATM T1	
School for the Blind	300 2nd Ave NE, Suite 208	Jamestown	Cable	
Protection and Advocacy	311 1st Ave S	Jamestown	Cable	
Transitional Living Center	606 14th St NE	Jamestown	Cable	
Jamestown Rest Area	194 Mile Marker 254	Jamestown	Dial-Up	
Jamestown Rest Areas	I-94 Mile Point 254	Jamestown	DSL	
Stutsman Co SS	116 1st St E	Jamestown	Fiber	
Jamestown Motor Vehicle & DL	121 1st St W	Jamestown	Fiber	
State Hospital	2605 Circle Drive	Jamestown	Fiber	
Central Valley Health Unit	310 10th St	Jamestown	Fiber	
Jamestown Job Service	429 SW 2nd St	Jamestown	Fiber	
Stutsman Co Courthouse & HP	511 2nd Av SE	Jamestown	Fiber	
SC HSC	520 3 St NW	Jamestown	Fiber	
Stutsman Co CSE	804 13th St NE	Jamestown	Fiber	
James Valley Area Vo Tec Cntr	910 12th Av NE	Jamestown	Fiber	
Game and Fish Department	3320 E Lakeside Road	Jamestown	Pt-to-Pt Wireless	
Joliette Weigh Station	Jct ND 5 & I-29	Joliette	Frame Relay 56k	

Location Name	Address	City	Circuit Type	EDLS rated
Kenmare High School	300 7th Ave NE	Kenmare	ATM T1	EDLS
Kenmare DOT Section Office	49501 422nd Av NW	Kenmare	DSL	
Kenmare Public Library	5 NE 3rd	Kenmare	DSL	
Kenmare DOT Construction Office	600 block 5th Ave NE	Kenmare	DSL	
Kensal Public School	803 1st Ave	Kensal	ATM T1	EDLS
Killdeer Public School	200 W High St	Killdeer	ATM T1	EDLS
Dunn County SS	315 Central Av	Killdeer	ATM T1	
Killdeer DOT Section Office	398 Hwy 22	Killdeer	DSL	
Kindred Public School	55 1st Ave S	Kindred	ATM T1 x 2	EDLS
Kulm High School	105 1st Av SW	Kulm	ATM T1	EDLS
Curt Fogel residence (Health Dept)	200 4th Ave SE	Kulm	DSL	
Nelson Co Courthouse & SS	210 B Av W	Lakota	ATM T1	
Lakota High School	Main St & E Ave	Lakota	ATM T1	EDLS
LaMoure Public Schools	105 6th Av SE	LaMoure	ATM T1	EDLS
LaMoure Co Courthouse & SS	202 4th Av NE	LaMoure	ATM T1	
LaMoure County Public Health Dept	Omega City Plaza	LaMoure	ATM T1	
Cavalier County SS	324 7th Av	Langdon	ATM T1	
Langdon High School	715 14th Ave	Langdon	ATM T1	EDLS
Cavalier County Courthouse & DL	901 3rd St	Langdon	ATM T1	
Langdon Research Extension Center	9291 107th Av NE	Langdon	ATM T1	
Langdon DOT Section Office	10424 Hwy 5	Langdon	DSL	
Cavalier County Library	600 5th Av	Langdon	DSL	
Lankin Public Schools	400 Second Av	Lankin	ATM T1	EDLS
David O'Connell	2624 County Road 30	Lansford	DSL	
Larimore High School	300 Booth Ave	Larimore	ATM T1	EDLS
Larimore DOT Section Office	1524 Towner Av	Larimore	Pt-to-Pt Wireless	
Leeds Public Schools	530 1st St SE	Leeds	ATM T1	EDLS
Lidgerwood DOT Section Office	25 4th Ave SE	Lidgerwood	DSL	
Burke Central Public Schools	101 4th Av W	Lignite	ATM T1	EDLS
Emmons Cnty Courthouse, SS,& DC	100 NW 4th St	Linton	ATM T1	
Emmons County Public Health	118 Spruce	Linton	ATM T1	
Harry L. Petrie Public	101 NE 1St	Linton	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Library				
Linton DOT Section Office	820 Hwy 13 SE	Linton	DSL	
Linton Drivers License	101 1st St NE	Linton	Frame Relay 56k	
ND Veterans Home	1400 Rose St	Lisbon	ATM T1	
Ransom Co Courthouse & SS	205 5th Av W	Lisbon	ATM T1	
Lisbon High School	502 Ash St	Lisbon	ATM T1	EDLS
HQ Det 1 Co A 142 Bn	504 Prospect St	Lisbon	ATM T1	
Lisbon Public Library	409 Forest St	Lisbon	DSL	
Lisbon DOT Temp Const Office	417 1/2 Main St	Lisbon	DSL	
Lisbon DOT Section Office	6824 Hwy 32	Lisbon	DSL	
Lisbon Drivers License	504 Prospect St	Lisbon	Frame Relay 56k	
Litchville Public Schools	304 6th Av	Litchville	ATM T1	EDLS
Litchville DOT Section Office	808 1st Ave	Litchville	DSL	
Maddock Public Schools	Campus Drive	Maddock	ATM T1	EDLS
Maddock DOT Section Office	4902 39th St NE	Maddock	DSL	
North Shore High School	3rd Ave & Rose	Makoti	ATM T1	EDLS
Morton Cnty Courthouse, SS, & DC	210 2nd Av NW	Mandan	ATM T1	
Mandan Public Library	609 W Main St	Mandan	ATM T1	EDLS
Youth Correctional Center	701 16th Av SW	Mandan	ATM T1	EDLS
Mandan Public Works	411 6th Ave SW	Mandan	Cable	
Thomas Kelsch	611 Craig Drive	Mandan	Cable	
Dwight Cook	1408 17th ST SE	Mandan	DSL	
Fort Lincoln State Park	4480 Fort Lincoln Road	Mandan	Pt-to-Pt Wireless	
Mandaree Public School	Main St	Mandaree	ATM T1	EDLS
Dunn County Courthouse & DC	101 Owens St	Manning	ATM T1	
Manvel Public Schools	801 Oldham Av	Manvel	ATM T1	EDLS
Litchville-Marion High School	104 2nd St	Marion	ATM T1	EDLS
Max Public School	Hwy 83 N	Max	ATM T1	EDLS
Max Community Library	201 Main St	Max	DSL	
Mayville State University	330 3rd St NE	Mayville	ATM DS3	
HQ Det 2 Co A 142 Bn	332 Center Av S	Mayville	ATM T1	
May-Port CG Public Schools	900 Main St W	Mayville	ATM T1	EDLS
Mayville Drivers License	21 1st St NE	Mayville	Frame Relay 56k	
Sheridan County Courthouse & SS	215 E 2nd St	McClusky	ATM T1	
McClusky High School	219 Ave D W	McClusky	ATM T1	EDLS
McClusky DOT Section Office	215 Ave A West	McClusky	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
SBC- McLaughlin Center	502 S Main	McLaughlin SD	ATM T1	
Dakota Prairie Elementary	101 Nyhus Av	McVille	ATM T1	EDLS
Nelson-Griggs District Health Unit	116 Main St	McVille	ATM T1	
Medina Public School	300 School St SE	Medina	ATM T1	EDLS
Medina DOT Section Office	3682 55th Ave SE	Medina	DSL	
DeMores Elementary School	350 Broadway	Medora	ATM T1	EDLS
Billings County Courthouse	4th & Pacific Av	Medora	ATM T1	
Chateau de Mores	3448 Chateau Rd	Medora	DSL	
Menoken Public Schools	412 N Bismarck St	Menoken	ATM T1	EDLS
Michigan DOT Section Office	519 South St	Michigan	DSL	
Minnewaukan Public School	200 D Ave S	Minnewaukan	ATM T1	EDLS
Benson County SS	210 7th St E	Minnewaukan	ATM T1	
Benson County Courthouse	311 B Av S	Minnewaukan	ATM T1	
Minnewaukan Public Library	170 Main St E	Minnewaukan	DSL	
Minot Public Schools Admin Office	215 2nd St SE	Minot	ATM DS3	EDLS
Minot State University	500 University Av W	Minot	ATM DS3	
South Prairie Elem. School	100 177th Av SW	Minot	ATM T1	EDLS
NW Medical Education Center	123 1st St SW	Minot	ATM T1	
Minot DOT & HP	1305 Hwy 2 Bypass	Minot	ATM T1	
Minot DL / MV / Tax Dept	1600 2nd Av SW	Minot	ATM T1	
Organizational Maintenance Shop	1810 6th St NE	Minot	ATM T1	
Ward County Courthouse & DC	315 3rd St SE	Minot	ATM T1	
Minot Job Service	3416 N Broadway	Minot	ATM T1	
HQ 164 Engr Bn	3420 2nd St NE	Minot	ATM T1	
HQ 164 Engr Bn	3420 2nd St NE	Minot	ATM T1	
Ward County Library	405 3rd Av SE	Minot	ATM T1	EDLS
Minot Public Library	516 2nd Av SW	Minot	ATM T1	EDLS
NC Research & Extension Center	5400 Highway 83 South	Minot	ATM T1	
Dakota Memorial High School	6301 19th Av NW	Minot	ATM T1	EDLS
Nedrose Elementary School	6900 Highway 2 East	Minot	ATM T1	EDLS
Minot BCI and Oil & Gas	7 3rd St SE	Minot	ATM T1	
First District Health Unit	801 11th Av SW	Minot	ATM T1	

Location Name	Address	City	Circuit Type	EDLS rated
Minot CSE	Trinity Plaza,123 1st St SW	Minot	ATM T1	
NC HSC	400 22nd Av NW	Minot	ATM T1 x 2	
Trinity Medical Center Prof Bldg	20 Burdick Expressway	Minot	ATM T1 X 3	
Parole and Probation	108 Burdick Expressway E	Minot	Cable	
Division of Juvenile Services	900 N Broadway, Suite 300	Minot	Cable	
Dacota Living Home	1508 17 1/2 Ave SW	Minot	DSL	
Oakwood Court	1738 Burdick Expressway E	Minot	DSL	
ND State Fair	2005 Burdick Expressway	Minot	DSL	
Crisis Residential Center	407 3rd St SE	Minot	DSL	
Andrew Margagos	125 6th Avenue NE	Minot	DSL	
Larry Bellew	1309 25th Place NW	Minot	DSL	
Karen Krebsbach	1715 6th St NW	Minot	DSL	
Mike Timm	1800 2nd St Se	Minot	DSL	
Mathew Klein	1815 7th Street NW	Minot	DSL	
Kari Conrad	224 8th St Se	Minot	DSL	
Clara Sue Price	3520 30th Street NW	Minot	DSL	
Dan Ruby	4620 46th Avenue NW	Minot	DSL	
Ben Tollefson	500 24th st NW	Minot	DSL	
Elwood Thorpe	607 18th Avenue SW	Minot	DSL	
Randy Shobinger	916 3rd ave se	Minot	DSL	
Pass & Registration	15 Missile Ave, Bldg 196	Minot AFB	Cable	
SFS Law Enforcement Desk	330 Tanker Trail	Minot AFB	Cable	
Shandi Teltschik Residence	101 Sunset Loop #1	Minot AFB	DSL	
Minto Public School	200 4th St	Minto	ATM T1	EDLS
Renville County Courthouse & SS	205 E Main	Mohall	ATM T1	
Mohall Public School	101 3rd St NW	Mohall	ATM T1 x 2	EDLS
Mohall DOT Section Office	802 Co Rd 9 N	Mohall	DSL	
Montpelier Public School	322 Bailey Av	Montpelier	ATM T1	EDLS
Hettinger County SS	309 Millionaire Av	Mott	ATM T1	
Hettinger County Courthouse	399 Pacific Av	Mott	ATM T1	
HQ Det 1 Co C 141 Bn	507 Brown Av	Mott	ATM T1	
Mott DOT Section Office	9108 71st R St SW	Mott	DSL	
Munich Public School	410 7th Av	Munich	ATM T1	EDLS
Logan County Courthouse & SS	301 Broadway St	Napoleon	ATM T1	
Napoleon DOT Section	59 Broadway	Napoleon	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Office				
New England Public School	1200 Main	New England	ATM T1	EDLS
Dakota Wmns Correctional & Rehab	440 McKenzie Av	New England	ATM T1	
New England DOT Section Office	6102 Hwy 22	New England	DSL	
New England Public Library	726 McKenzie St	New England	DSL	
Eddy County SS	22 S 9th St	New Rockford	ATM T1	
New Rockford Public School	430 1st Av N	New Rockford	ATM T1	EDLS
Eddy County Courthouse & DC	524 Central Av	New Rockford	ATM T1	
New Salem City Hall	400 Main Ave	New Salem	DSL	
Hailstone Rest Area east bound	8 miles west of New Salem	New Salem	DSL	
Hailstone Rest Area west bound	8 miles west of New Salem	New Salem	DSL	
Fort Berthold Community College	220 8th Av N	New Town	ATM T1	
New Town High School	2nd St Central Ave	New Town	ATM T1 x 2	EDLS
BIA Police Dept	1Main St (Civic Center)	New Town	DSL	
New Town Job Service	204 Main St	New Town	DSL	
New Town DOT Section Office	Jct 23 & 1804 SE of Hwy	New Town	DSL	
Newburg-United Public School	400 Libbie St	Newburg	ATM T1	EDLS
Bob Hunskor	p.o	Newburg	DSL	
Northwood Public Schools	219 Hougen St	Northwood	ATM T1	EDLS
HQ Co A 142 Bn	124 S 5th St	Oakes	ATM T1	
SE Area Vocational Tech Center	924 7th St S	Oakes	ATM T1 x 2	EDLS
Oakes Job Service	517 Main Av	Oakes	DSL	
Oakes DOT Section Office	914 7th St S	Oakes	DSL	
Oakes Drivers License	124 S 5th	Oakes	Frame Relay 56k	
Oberon Public Schools	315 A St N	Oberon	DSL	
Oriska Public School	502 2nd Av	Oriska	ATM T1	EDLS
Oriska Rest Area	MP304 I-94 median	Oriska	DSL	
Page Elementary School	630 May Av	Page	ATM T1	EDLS
Park River Public School	605 6th St W	Park River	ATM DS3	EDLS
Parshall High School	501 N Main St	Parshall	ATM T1	EDLS
Parshall DOT Section Office	7198 38th St NW	Parshall	DSL	
Pekin DOT Section Office	205 Main St S	Pekin	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Pembina State Museum	805 Highway 59	Pembina	DSL	
Dakota Prairie High School	518 4th Ave	Petersburg	ATM T1	EDLS
Pettibone Public Schools	101 3rd Av NW	Pettibone	ATM T1	EDLS
Lake Sakakawea State Park	1 mile north of Pick City	Pick City	DSL	
Pingree-Buchanan High School	111 Lincoln Av	Pingree	ATM T1	EDLS
Plaza Public Schools	801 Covell St	Plaza	ATM T1	EDLS
Powers Lake Public Schools	600 Railroad Av E	Powers Lake	ATM T1	EDLS
Ray Public School	215 W	Ray	ATM T1	EDLS
Rhame Public School	402 4th Ave E	Rhame	ATM T1	EDLS
Richardton-Taylor High School	320 Raider Rd	Richardton	ATM T1	EDLS
Richardton DOT Section Office	115 D St S	Richardton	DSL	
McLean/Mercer Regional Library	200 Downtown Plaza	Riverdale	DSL	
ND Game and Fish	406 Dakota Av	Riverdale	DSL	
Robinson Public Schools	411 Highway 36 East	Robinson	ATM T1	EDLS
North Central Public School	38 Forrest St	Rocklake	ATM T1	EDLS
North Central Public School	10860 20 1/2 St SE	Rogers	ATM T1	EDLS
Rolette Public School	Ball Park Av	Rolette	ATM T1	EDLS
Rolette County Courthouse	102 NE 2nd St	Rolla	ATM T1	
Rolette County Courthouse	102 NE 2nd St	Rolla	ATM T1	
Lake Region Outreach	103 1st Av SE	Rolla	ATM T1	
Rolla Job Service	103 E Main Av	Rolla	ATM T1	
Rolette County Public Health Dist.	11 Main Ave E. #2	Rolla	ATM T1	
Mt Pleasant High School	201 5th St NE	Rolla	ATM T1	EDLS
Rolla DOT Section Office	113 1st St NE	Rolla	DSL	
Rolla Parole and Probation	8 E Main Ave	Rolla	DSL	
Rolette County Social Services	212 2nd Av NE	Rolla	Fiber to ATM T1 site	
Rolla Drivers License	14 1st St SE	Rolla	Frame Relay 56k	
HQ Det 2 132nd Quartermaster Co.	1015 S Main St	Rugby	ATM T1	
Rugby Motor Vehicle	140 Viking Dr	Rugby	ATM T1	
Pierce County Courthouse & DC	240 SE 2nd St	Rugby	ATM T1	
Pierce County SS	820 Main Av S	Rugby	ATM T1	
Rugby High School	1123 S Main Av	Rugby	ATM T1 X 2	EDLS
DOT Construction Field Office	202 Highway 2 SE	Rugby	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
NC HSC Outreach	210 S Main	Rugby	DSL	
Rugby DOT Section Office	603 1st St NE	Rugby	DSL	
Rugby Drivers License	1015 S Main	Rugby	Frame Relay 56k	
St John Public School	400 Foussard Av	Saint John	ATM T1	EDLS
Sawyer Public School	101 2nd St W	Sawyer	ATM T1	EDLS
Selfridge Public School	210 2nd Ave S	Selfridge	ATM T1	EDLS
Selfridge DOT Section Office	9510 26th Av	Selfridge	DSL	
Sherwood Public School	600 Main St	Sherwood	ATM T1	EDLS
Sheyenne Public School	Sunnyside Av	Sheyenne	ATM T1	EDLS
Solen Public School	Main St	Solen	ATM T1	EDLS
South Heart Public School	100 Main St	South Heart	ATM T1	EDLS
Little Heart Elementary School	2354 County Road 136	St Anthony	ATM T1	EDLS
Mountrail County Courthouse & DC	101 N Main St	Stanley	ATM T1	
Mountrail County SS	18 2nd Av W	Stanley	ATM T1	
Stanley Public Schools	N 1 Education Road	Stanley	ATM T1	EDLS
Stanley DOT Section Office	8250 62nd St NW	Stanley	DSL	
Stanley Drivers License	221 S Main	Stanley	Frame Relay 56k	
Mercer Cnty Courthouse, BCI, & DC	1021 Arthur St	Stanton	ATM T1	
Mercer County Social Services	1030 Arthur St	Stanton	Fiber to ATM T1 site	
Starkweather Public School	505 E Main	Starkweather	ATM T1	EDLS
Starkweather DOT Section Office	71717 Hwy 200	Starkweather	DSL	
Kidder County Courthouse & SS	120 E Broadway	Steele	ATM T1	
Kidder County Health Unit	422 2nd Av NW	Steele	ATM T1	
DOT Maintenance Section Office	3840 25th Av SE	Steele	DSL	
Strasburg High School	307 W Main	Strasburg	ATM T1	EDLS
Central Grasslands Research Cntr	4824 48th Av SE	Streeter	ATM T1	
Surrey Public School	200 2nd St SE	Surrey	ATM T1	EDLS
Sykeston Public School	114 B St NE	Sykeston	ATM T1	EDLS
Tappen Public School	Main St	Tappen	ATM T1	EDLS
Richardton-Taylor Elem. School	306 Ertel Av	Taylor	ATM T1	EDLS
Thompson Public School	424 3rd St	Thompson	ATM T1 x 2	EDLS
Tioga High School	303 N Linda	Tioga	ATM T1	EDLS
Tioga DOT Field Office	108 N Welo	Tioga	DSL	
Maple Valley High School	207 Broadway	Tower City	ATM T1	EDLS
Towner Public School	302 2nd St SE	Towner	ATM T1	EDLS

Location Name	Address	City	Circuit Type	EDLS rated
McHenry County Courthouse & SS	407 S Main	Towner	ATM T1	
Sandra Hanretty residence	203 Rodeo Drive	Towner	DSL	
Towner DOT Section Office	401 Airport Rd	Towner	DSL	
Ryan Taylor	5435 13th Ave NE	Towner	DSL	
Eight Mile Public School	Co Hwy 1804	Trenton	ATM T1	EDLS
Turtle Lake Public Library	107 Edgert St	Turtle Lake	DSL	
Underwood DOT Section Office	337 Old Hwy 83	Underwood	DSL	
Underwood Public Library	88 Lincoln Av	Underwood	DSL	
Valley City State University	101 College St SW	Valley City	ATM DS3	
Valley City DOT	1524 8 Av SW	Valley City	ATM T1	
Barnes Co Courthouse & SS	230 4th St NW	Valley City	ATM T1	
Valley City Job Service	250 Central Av S	Valley City	ATM T1	
Valley City Motor Vehicle	250 W Main St	Valley City	ATM T1	
Valley City Drivers License	747 7th St SE	Valley City	ATM T1	
HQ 141 Engr Bn	747 7th St SE	Valley City	ATM T1	
HQ 141 Engr Bn	747 7th St SE	Valley City	ATM T1	
Valley City Area Voc Tech	801 Valley Av SE	Valley City	ATM T1	EDLS
Organizational Maintenance Shop	850 Airport Road	Valley City	ATM T1	
Valley City High School	493 Central Av N	Valley City	ATM T1 x 2	EDLS
Velva Public School	101 W 4th St	Velva	ATM T1	EDLS
Velva DOT Section Office	4384 Hwy 41	Velva	DSL	
ND State College of Science	800 N 6th St, Bldg 5	Wahpeton	ATM DS3	
Wahpeton High School	1021 11th St N	Wahpeton	ATM T1	EDLS
HQ Co B 142 Bn	2003 4th St N	Wahpeton	ATM T1	
Richland Co Courthouse & SS	418 2nd Av N	Wahpeton	ATM T1	
Wahpeton Motor Vehicle	500 Dakota Av	Wahpeton	ATM T1	
Wahpeton Job Service	524 2nd Av N	Wahpeton	ATM T1	
Clark Williams	112 3rd Avenue North	Wahpeton	Cable	
Margaret Wall	1222 Concord Ct	Wahpeton	Cable	
Russell Thane	611 Parkway Dr.	Wahpeton	Cable	
Wahpeton Parole and Probation	709 Dakota Ave, Suite D	Wahpeton	Cable	
Wahpeton Parole and Probation	709 Dakota Ave, Suite D	Wahpeton	Cable Modem	
Wahpeton DOT Section Office	7930 180th R Ave SE	Wahpeton	DSL	
Law Enforcement Center	413 3rd Av N	Wahpeton	Fiber to ATM T1 site	
Wahpeton Drivers License	520 3rd Av S	Wahpeton	Frame Relay 56k	
DOT Maintenance Section	7930 180th Av SE	Wahpeton	Satellite	

Location Name	Address	City	Circuit Type	EDLS rated
Office				
Warwick Public School	210 4th Av	Warwick	ATM T1	EDLS
McLean Cnty Courthouse, SS,& DC	712 5th Av	Washburn	ATM T1	
Washburn Public Library	705 Main Av	Washburn	DSL	
McLean County Sheriffs Office	709 6th Av	Washburn	DSL	
Lewis and Clark Interpretive Center	Highways 83 and 200A	Washburn	DSL	
Mckenzie County Courthouse & SS	201 W 5th St	Watford City	ATM T1	
Watford City DOT Section Office	105 10th St SW	Watford City	DSL	
NWHSC Outreach	109 5th St SW	Watford City	DSL	
Watford City Drivers License	213 2nd St NE	Watford City	Frame Relay 56k	
Watford City High School	100 3rd St E	Watford City	ATM T1	EDLS
West Fargo Parole & Probation	623 E Main Av	West Fargo	DSL	
West Fargo Weigh Station	West of Junction I-29 & I-94	West Fargo	Frame Relay 56k	
Westhope Public School	101 Main St	Westhope	ATM T1	EDLS
White Shield Public School	School St	White Shield	ATM T1	EDLS
Wildrose-Alamo Public Schools	Cooley St	Wildrose	ATM T1	EDLS
Williston State College	1410 University Av	Williston	ATM DS3	
Williston Motor Vehicle	10 S Main St	Williston	ATM T1	
Upper Missouri District Health Unit	110 Broadway, Suite 101	Williston	ATM T1	
Williston Community Library	1302 Davison Dr	Williston	ATM T1	EDLS
Williston Highway Patrol	13932 W Front St	Williston	ATM T1	
Williston Research Extension Center	14120 Highway 2 W	Williston	ATM T1	
HQ Co B 164 Bn	2 Main St	Williston	ATM T1	
Williston DOT / DL	2300 Dakota Parkway W	Williston	ATM T1	
Williston Job Service	422 1st Av W	Williston	ATM T1	
Stoney Creek Elem. School	5032 133 Rd Dr NW	Williston	ATM T1	EDLS
Williston Parole & Probation	512 4th Av E	Williston	ATM T1	
Williams Cnty Courthouse, CSE, DC	205 E Broadway	Williston	ATM T1 x 2	
NW HSC	316 2nd Av W	Williston	ATM T1 x 2	
Williston High School	502 W Highland Dr	Williston	ATM T1 x 2	EDLS
ND Tax Department	1137 2nd Ave W.,	Williston	Cable	

Location Name	Address	City	Circuit Type	EDLS rated
	Suite 103			
ND Tax Department	1137 2nd Ave W., Suite 103	Williston	Cable	
Stan Lyson	1608 4th Ave west	Williston	Cable	
Williston Oil & Gas	11 1/2 E Broadway	Williston	DSL	
Fort Buford Interpretive Center	15349 39th Ln NW	Williston	DSL	
Williston DJS	322 Main St Suite 103	Williston	DSL	
Williston WFSI	417 1st Av E	Williston	DSL	
Williston District DOT Office	605 Dakota Parkway W	Williston	DSL	
Williston Weigh Inspection Station	Jct US 2 & US 85	Williston	Frame Relay 56k	
Wimbledon-Courtenay Public School	123 Education Dr	Wimbledon	ATM T1	EDLS
HQ Det 1 Co A 141 Bn	1208 1st Av S	Wishek	ATM T1	
Wishek DOT Section Office	3844 Hwy 13 SE	Wishek	DSL	
Wishek Drivers License	1208 1st Av S	Wishek	Frame Relay 56k	
Wolford Public School	401 3rd Ave SW	Wolford	ATM T1	EDLS
Wyndmere DOT Section Office	7775 Hwy 18	Wyndmere	DSL	
Zeeland Public School	510 S Main	Zeeland	ATM T1	EDLS
O. Aarsvold	route 2 box 12	Blanchard	Wireless	
Robert Stenehjem	7475 41st SE	Bismarck	Wireless	
Bill Devin	po	Finley	Wireless	
Duane Mutch	711 Terry Ave	Larimore	Wireless	
Don Vigesssa	203 Fairway Dr Nw	Cooperstown	Wireless	
Gerald Uglem	4510 1st Avenue NE	Northwood	Wireless	
John Andrist, St Legislator	606 SE 2	Crosby	DSL	
Bill Amerman, St Legislator	254 2nd St Sw	Forman	DSL	
Wesley Belter, St Legislator	15287 47th St SE	Leonard	DSL	
Dennis Bercier, St Legislator	po box call for directions	Belcourt	DSL	
Rick Berg, St Legislator	6437 13 St N	Fargo	DSL	
Leroy Bernstein, St Legislator	3949 N 10th St	Fargo	DSL	
Tracy Boe, St Legislator	HC 1 box 35	Mylo	DSL	
Merle Boucher, St Legislator	606 Highland St	Rolette	DSL	
Bill Bowman, St Legislator	408 First Street	Bowman	DSL	
Richard Brown, St Legislator	5418 11th St South	Fargo	DSL	
Thomas Brusegaard, St Legislator	po	Gilby	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Dawn Charging, St Legislator	7276 14 St Nwlot 16	Garrison	DSL	
Donald Clark, St Legislator	3001 Hickory Street	Fargo	DSL	
Dwight Cook, St Legislator	1408 17th ST SE	Mandan	DSL	
Charles Damschen, St Legislator	9461 80th ST NE	Hampden	DSL	
Duane DeKrey, St Legislator	5323 27th Street SE	Pettibone	DSL	
Jeff Delzer, St Legislator	2919 5th Street NW	Underwood	DSL	
David Drovdal, St Legislator	2802 131st Avenue NW	Arnegard	DSL	
Michael Every, St Legislator	131 3rd Street E	Minnewaukan	DSL	
April Fairfield, St Legislator	312 South Main	Eldridge	DSL	
Tom Fischer, St Legislator	2801 64th Ave S	Fargo	DSL	
Tim Flakoll, St Legislator	1350 2nd St N	Fargo	DSL	
Rod Froelich, St Legislator	8710 Highway 6	Selfridge	DSL	
Glen Froseth, St Legislator	501 3rd st NE	Kenmare	DSL	
Betty Grande, St Legislator	3510 42nd Avenue SW	Fargo	DSL	
Tony Grindberg, St Legislator	2832 39 1/2 ave SW	Fargo	DSL	
Pam Guleson, St Legislator	220 Gay St	Rutland	DSL	
C.B Haas, St Legislator	3519 94th Avenue SW	Taylor	DSL	
Lyle Hanson, St Legislator	337 15th Avenue NE	Jamestown	DSL	
Kathy Hawken, St Legislator	503 Southwood Drive	Fargo	DSL	
Craig Headland, St Legislator	4950 92nd Avenue SE	Montpelier	DSL	
Joel Heitkamp , St Legislator	9457 West Ridge Rd	Hankinson	DSL	
Stacey Horter, St Legislator	805 North 43 street Apt C31	Grand Forks	DSL	
Ron Iverson, St Legislator	4227 10th ave SW 302	Fargo	DSL	
Dennis Johnson, St Legislator	1901 Burke Boulevard	Devils Lake	DSL	
Lee Kaldor, St Legislator	Po Box 215	Mayville	DSL	
Jim Kasper, St Legislator	1128 Westrac Drive	Fargo	DSL	
Scot Kelsh, St Legislator	1114 S. 10th Street	Fargo	DSL	
Keith Kempenich, St Legislator	9005 151st Avenue SW	Bowman	DSL	
James Kerzman, St Legislator	6152 87th R Avenue SW	Mott	DSL	
Jerry Klein, St Legislator	331 2nd St N	Fessenden	DSL	
Kim Koppelman, St	513 1st Avenue NW	West Fargo	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Legislator				
Aaron Krauter , St Legislator	10545 59th ST SW	Regent	DSL	
Gary Kreidt, St Legislator	3892 County Road 86	New Salem	DSL	
William Kretschmar, St Legislator	201 E. 3rd Street	Venturia	DSL	
Joe Kroeber, St Legislator	1210 7th Avenue SE	Jamestown	DSL	
Judy Lee, St Legislator	1822 Brentwood Court	West Fargo	DSL	
Gary Lee, St Legislator	3752 1601/2 Avenue South East	Casselton	DSL	
Elroy Lindaas, St Legislator	route #2 Box 91	Mayville	DSL	
Bob Martinson, St Legislator	2749 Pacific Avenue	Bismarck	DSL	
Ralph Metcalf, St Legislator	11819 33rd Street SE	Valley City	DSL	
Shirley Meyer, St Legislator	4025 Highway 22	Dickinson	DSL	
David Monson, St Legislator	1313 Rainbow Road	Osnabrock	DSL	
Carolyn Nelson, St Legislator	1125 College St	Fargo	DSL	
Jon Nelson, St Legislator	4680 71st Street NE	Wolford	DSL	
Eugene Nicholas, St Legislator	214 14th Street	Cando	DSL	
Kenton Onstad, St Legislator	3515 66th Avenue NW	Parshall	DSL	
Chet Pollert, St Legislator	560 6th Street S	Carrington	DSL	
Todd Porter, St Legislator	4604 Borden Harbor Drive SE	Mandan	DSL	
Earl Rennerfelt, St Legislator	1704 Rose Lane	Williston	DSL	
Larry Robinson, St Legislator	3584 Sheyenne Circle	Valley City	DSL	
Sally Sandvig, St Legislator	201 N 11th Street #202	Fargo	DSL	
Arlo Schmidt, St Legislator	604 1st Street Box 189	Maddock	DSL	
Tom Seymour , St Legislator	1104 14th ave SW	Minot	DSL	
Bob Skarphol, St Legislator	301 North Welow	Tioga	DSL	
Dorvan Solberg, St Legislator	11395 66th Street NW	Ray	DSL	
Ken Svedjan, St Legislator	4697 Harvest Circle	Grand Forks	DSL	
Blair Thoreson, St Legislator	1246 2nd Street N	Fargo	DSL	
John Traynor, St Legislator	607 12th Ave	Devils Lake	DSL	

Location Name	Address	City	Circuit Type	EDLS rated
Constance Triplett, St Legislator	1807 Willow Drive	Grand Forks	DSL	
Richard Wardner , St Legislator	1042 12th Ave West	Dickinson	DSL	
John Warner, St Legislator	33200 331st Avenue SW	Ryder	DSL	
Robin Weisz, St Legislator	50 Highway 3 South	Hurdsfield	DSL	
Alon Wieland, St Legislator	1414 Sheyenne St	West Fargo	DSL	
Steven Zaiser, St Legislator	802 7th Street S	Fargo	DSL	

ATTACHMENT 6

STAGEnet Vision Statement

Final Report Version 2.0

April 18, 2005

Prepared by:

Federal Engineering, Inc.
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STAGEnet 2006 Vision Statement

Executive Summary

This document provides a recommended vision statement as the baseline for defining North Dakota's telecommunications network over the next 7-10 years. The vision will support a high level procurement and development strategy for future voice, data, and video services (excluding radio communications), and address the goals of achieving a) increased bandwidth, b) low network latency, c) reliable and survivable service, d) security and privacy, e) wireless connectivity, and f) low-cost access.

Working in concert with the Information Technology Department (ITD), Federal Engineering (*FE*) reviewed existing network systems, and reviewed feedback from ITD meetings with key state management officials, to develop, refine, and document the vision statement. This report outlines current conditions and recommends a future migration path.

The current telecommunications network infrastructure for the State of North Dakota is a shared enterprise infrastructure called Statewide Technology Access for Government and Education Network (STAGEnet). It is managed and operated by the Information Technology Department (ITD). STAGEnet infrastructure provides statewide network access and connectivity for:

- ✓ State government
- ✓ State, local, county, and city offices
- ✓ K-12 schools
- ✓ Universities
- ✓ Colleges
- ✓ Public libraries

STAGEnet 2006 is the next generation network that envisions a cost-effective and reliable infrastructure to both meet and surpass current business objectives and also provide the scale and flexibility to support the convergence of voice, video and data technologies, as key components in optimizing statewide services.

The current infrastructure, operational for over 4 years, is now experiencing significant demands for additional bandwidth, lower network latency, and higher quality of service resulting from introduction of the following requirements:

- Document imaging
- Geographical Information Systems (GIS)
- Increased research at State universities and colleges

- Increased use of video throughout all State educational institutions as well as a number of government functions
- Online access to government and education services throughout the State

Originally deployed over an Asynchronous Transfer Mode (ATM) infrastructure, STAGEnet has evolved into a hybrid network in order to meet increased demand. The infrastructure now includes the use of optical fiber, Internet Service Provider (ISP) broadband services, and wireless/satellite connectivity. (Some fiber infrastructure is operated through private consortia that provide feature support while ITD provides the overall network support.)

An increasing number of mission-critical government business functions require higher levels of security, redundancy, availability, and reliability. These include:

- ✓ Homeland Security initiatives
- ✓ IT system upgrades and migrations
- ✓ North Dakota banking system upgrades
- ✓ State disaster recovery models

Just as critical is the need to provide physical separation of portions of the network in order to mitigate propagation (due to worms/viruses) and network failure risks. Additionally, there are increasing network requirements for applications like the Highway Patrol's Case Management System, DOT's Commercial Vehicle Systems and Networks (CVISN), the Division of Emergency Management's Computer Aided Dispatch (CAD) system, and the Division of Health Services' Direct Services Provision for Mental Health Services video application.

Other leading-edge applications require planning for bandwidth, reliability, security, and connectivity considerations. These include:

- ConnectND – A joint initiative between state government and the North Dakota University System (NDUS) that provides state-of-the-art integrated software systems to enhance service to the state's students, employees, and other constituents.
- Interactive Video Network (IVN) – A statewide resource that provides students with face-to-face education from almost anywhere, improving the richness and quality of education to all regions of the state.

While these and other state requirements generally rely on wireline technology, there is also a rapidly growing demand for mobile (wireless) communications. Public safety, law enforcement, transportation, highway maintenance, and consumer activity management, to name just a few, are moving toward wireless interactions more quickly than expected. In the blink of an eye, the wireless environment is transcending nearly every statewide activity and ITD must

enhance its wireless networks to meet new demands for anytime/anywhere connectivity to the STAGEnet infrastructure.

Looking toward the future, any proposed network must meet ITD's goals for cost-effective infrastructure, feature-richness, and innovative networking technologies across the public safety and business landscape. To accomplish this, STAGEnet 2006 must enable the State to provide new and enhanced value-added services quickly and efficiently, and at the same time provide incentive for commercial investment in the State of North Dakota. The following are key attributes that must be present for STAGEnet 2006 to meet the growing requirements. They are:

- Potential for design growth and/or modification without technology refresh
- Ability to scale services and offerings up or down depending on selection criteria
- Physical separation for state and local government, K-12 schools, North Dakota University System (NDUS), and Interactive Video Network (IVN)
- Control over provisioning and configuration changes, including moves/adds/changes/disconnects (MACDs)
- Sourcing for partnerships, alliances, in-source needs, etc.
- New, leading-edge equipment or facilities as an investment in the State of North Dakota by service providers

Scope Description

Current. The current network infrastructure is a dual hub/spoke design with network nodes in Bismarck and Fargo. These nodes are interconnected by multiple OC-3s and provide redundancy for all high-level applications. There is a Tier-1 ISP OC-12 connection at both locations providing diversity and redundancy for Internet access. State and local government business functions, the NDUS, political subdivisions (county courthouses and city functions), K-12 schools, state tribal colleges and private institutions, and the Interactive Video Network are all duplicated in each node.

Future. ITD plans to transform the current network into next generation capabilities through a self-healing ring topology, and at the same time expand the

backbone from 2 network nodes to a minimum of 4 (including Minot and Grand Forks).

The most desired configuration, however, would include as many as 8 network nodes providing first level backbone access to most of the cities housing State universities and colleges. This would include network nodes at Jamestown, Devil's Lake, Williston, and Dickinson, while providing the ability for high-speed tail circuits to Wahpeton, Mayville, Valley City, and Bottineau to complete the high-speed connectivity throughout the university system. (Both Mayville and Valley City are potential additions to the backbone design since they are located along the existing fiber infrastructure.) The expanded backbone must be a technology-enabling platform, allowing for growth of current applications, like IVN and ConnectND, as well as providing service connectivity enhancements without network re-design. The ultimate goal would be to provide an 8-node, metro-fiber backbone at 2.5 - 10 Gigabit wavelength speeds.

ITD should pursue a cross-connection for each network node at the service provider's facility to provide wire-speed data transfer at the backbone level. By expanding the backbone to 4 – 8 nodes, ITD would be able to provide higher speed services over a larger region of the state. The upsides are 1) the enhancement of the network disaster recovery model (through a redundancy and diversity architecture), and 2) the inclusion of high-speed connections at redundant locations to support the growing DSL/cable, wireless, and satellite connectivity requirements. This would provide additional (and similar) network services to all stakeholders and constituents.

Table 1 below provides the high-level benefits for STAGEnet 2006:

<p>Benefits to the State of North Dakota Resulting from the STAGEnet 2006 Initiative</p>	<ul style="list-style-type: none"> ▪ Introduce fiber access to more of the major centers within the State ▪ Grant NDUS Broadband bandwidth to support the introduction of leading-edge applications and allow for unlimited internet access ▪ Provide redundant connectivity and fail-over within the backbone while expanding the State’s disaster recovery model ▪ Establish a performance analysis and measurement system ▪ Establish formal service levels across the entire STAGEnet 2006 infrastructure ▪ Enable both physical and high-speed virtual network segmentation ▪ Provide a single, cost effective network to leverage economies of scale and enable the convergence of voice, video, and data ▪ Enable statewide high-speed access through diverse technologies, such as DSL/cable, wireless and satellite ▪ Allow for more consolidation of LAN infrastructure throughout K-12 system in coordination with Joint Power Agreements (JPA)
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Table 1 – Benefits of STAGEnet 2006

Backbone

STAGEnet 2006

The characteristics include one ring in a self-healing configuration (see Figure 1 below). This network is designed to traverse 8 network nodes along existing fiber infrastructure providing 7x24x365 availability. Both the current, and anticipated future demand for additional bandwidth, and the requirements for low network latency, high reliability and high quality of service from the IVN, are critical drivers toward an optical fiber infrastructure. Coupled with a strategy for IP convergence to enable voice, video, and data services on a single network infrastructure, the 8-node fiber architecture will be paramount to meeting statewide demand in the future.

This next generation network must also facilitate an expanded disaster recovery model, fail-over strategy between network nodes, and network traffic control in order to meet the growing demand for high-end applications and maintain a leading edge technology infrastructure. Additionally, this new infrastructure will be necessary to support the expansion of additional technologies such as wireless and satellite, and to provide direct high-speed access throughout as much of the state as possible. STAGEnet 2006 should provide connection to redundant wireless and satellite nodes enabling “always on” connectivity to the most remote locations in the state.

In order to meet these performance and reliability requirements, ITD should look for consistency of throughput and diversity in route selection throughout the provider network, maintaining the integrity of STAGEnet 2006. A strategic goal would be the leveraging of existing fiber infrastructure and current hardware everywhere possible.

Required functionality will include control over provisioning, with the ability to quickly and efficiently work with the provider to lessen lead times and allow for the configuration of network nodes by ITD professionals. With the self-healing characteristic of the network and gigabit speeds over fiber, ITD should expect virtually unlimited bandwidth, allowing for on-demand provisioning. This will support business partner requirements for a high-availability, scalable, and reliable infrastructure for:

- Voice, video and data convergence
- Enhancements to ConnectND and IVN
- Increased performance requirements from State functions such as the DOT, DHS, Game and Fish, etc.
- Increased demand for bandwidth and class of service by the North Dakota University System

- E-government strategies such as private practitioner’s portal, ShopND website, online grants software, and online campground reservation system
- Expansion of state services to all constituents

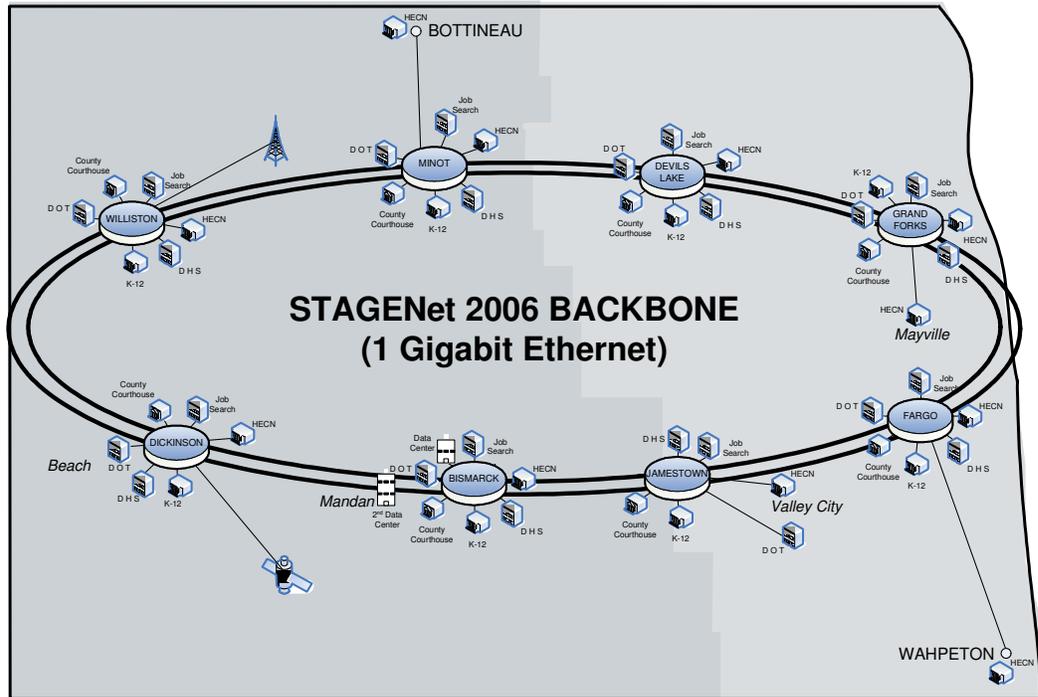


Figure 1 – STAGENet 2006 Conceptual Backbone Drawing

Network Access

1.2.2.1 Wireline Networking

Current. Approximately 470 K-12 schools throughout the state have network access to the ATM infrastructure via T-1 or DS3 connectivity. Federally funded by the e-Rate program, which provides a statewide flat rate pricing structure, K-12 schools are provided a service by the current provider inclusive of the transport and router. ITD manages and operates the equipment at each of the sites while the provider maintains the asset and manages the circuit.

Future. ITD should explore a tiered rate pricing structure allowing for better pricing at the state’s larger municipalities. County courthouses (which are part of the political subdivision) and state/local government agencies (such as the DOT, Job Services and the Department of Health Services) also require statewide access to STAGENet. Connectivity requirements have also increased with the need to connect a larger number of DSL/cable remote offices as well as the planned statewide wireless/satellite network expansion as part of STAGENet 2006.

Once the high-speed backbone is connected, each network node would have a hub/spoke topology providing network access to geographically strategic sites statewide. With the configuration of VLANs for each of the business units, STAGENet 2006 would successfully deliver physical separation and virtual segmentation for state/local government, NDUS, K-12 and IVN. The outcome would be a cost effective and highly available network telecommunications infrastructure. This network design (Figure 2 below) achieves the requirements for higher levels of security, reliability, accessibility and network management.

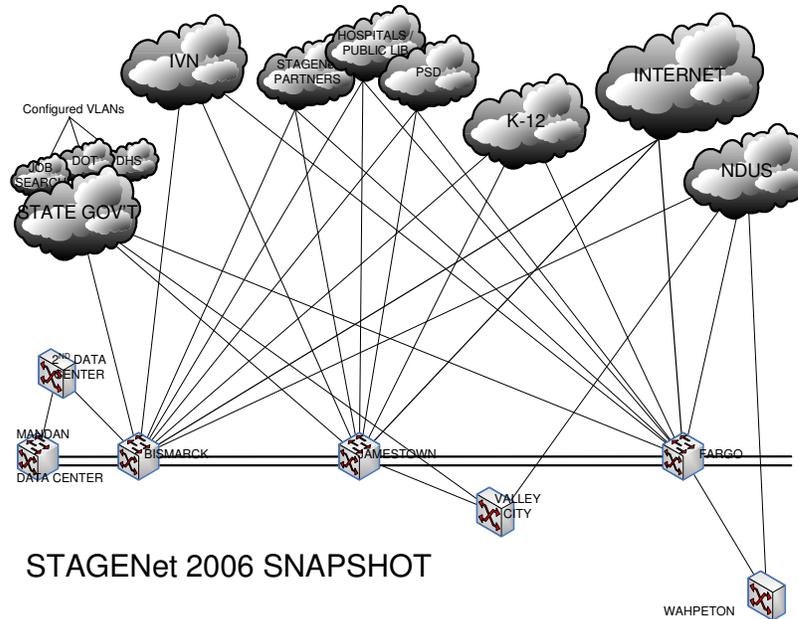


Figure 2 – Three-Node Snapshot of STAGENet 2006

The current configuration of 1mb reserved for video has reached capacity at a large number of the T-1 connected schools and must be upgraded to higher speeds to accomplish strategies for:

- ✓ State education technology initiatives focused on improving distance learning and independent study capabilities.
- ✓ New connectivity and research opportunities for students and teachers.
- ✓ Continuing the large-scale implementation of PowerSchool, the student information system being deployed to every school district in the state.
- ✓ The expansion of video curriculum throughout the state providing face-to-face learning opportunity to all of the approximately 210 school districts statewide.

- ✓ Support the increased requirement for desktop video throughout the university, college and K-12 systems.
- ✓ K-12 school requirements for flexible and scalable network connectivity for the online planning tools and data systems that will enable teachers and administrators to more effectively and efficiently track student progress in an effort toward learning improvement.
- ✓ Create the potential for consolidation of LAN infrastructure and required support into a central location per school district thereby enabling economies of scale and optimized expertise.
- ✓ Allow for the isolation of test labs throughout the state's university system.

Voice, video, and data convergence will increase the requirement for additional capacity, higher reliability, and quality of service. For any site statewide, IP convergence will be a critical factor in the future, as both voice and video will share the STAGEnet 2006 infrastructure.

The NDUS ConnectND and the IVN are two of the many applications driving high-availability, security, and redundancy requirements. ConnectND is the state-of-the-art Enterprise Resource Planning (ERP) system. This ERP is the joint effort between the NDUS and state government that runs the computer functions for NDUS academic and administrative areas, including student administration on campuses, financial and human resource applications throughout the university system, and financial and human resource functions for the state/local government. ConnectND benefits employees, customers, and constituency groups of the North Dakota University System and the State of North Dakota.

The IVN provides a system of geographically diverse consortia that, in partnership with ITD and local telecommunications providers have developed their own high-availability network over dark fiber with connectivity to STAGEnet. The STAGEnet infrastructure provides the facilities and bridging for this statewide video network, while support comes from the number of consortia throughout the state. Some of the consortia are SPICE, SEND, Great Western, and Red River ITV.

There are approximately 260 video classrooms currently configured with 1mb reserved for video at K-12 schools with T-1 access. There is a close working relationship between higher education administrators, the different consortia and ITD. This relationship should support any future expansion and/or upgrade in order to provide the most benefit to the State of North Dakota.

There are also a number of other important applications with increased connectivity and bandwidth requirements. These include the Criminal Justice Information System (CJIS), IVR, ND GIS Hub, Email, Database, and Mainframe applications (i.e. Drivers Licenses, demographics).

1.2.2.2

Wireless Networking

Current. The current STAGEnet infrastructure includes a small number of sites connected by both wireless and satellite technologies. A number of state and local government agencies are currently using a broad range of wireless solutions to support an increasing number of mobility requirements. Highway Patrol, the Bureau of Criminal Investigation (BCI), as well as the Departments of Health Services and Transportation are all agencies that currently have high mobility requirements.

In order to support the Highway Patrol's Mobile Data Communications System (MDCS), NDDOT's Roadway Weather Information System (RWIS) and the statewide 511 system, BCI's increased need for mobility in the field, and DHS' Direct Services Provision video application, these agencies require real-time access to critical information 7x24x365 from anywhere in the state.

The MDCS application enables law enforcement to increase productivity by increasing an officer's time in the field versus time in an office. It also provides real-time access to critical information and increases efficiency and safety, by capturing data at the patrol car level. BCI has a need for both mobility and access from anywhere in the state. Rapid deployment and redeployment of field officers requires high-speed access for real-time transfer of incident/event information.

The DHS has a number of applications requiring increased mobility including Eligibility Determination and Direct Services Provision for Mental Health Services applications. Increased bandwidth requirements also exist to satisfy HPPA requirements, delivering attachments (i.e. MRIs and X-rays) with claims.

The NDDOT also has a number of applications, including the Roadway Weather Information System (RWIS), the Auto Traffic Reporting (ATR), and the statewide 511 system that provide the people of North Dakota real-time weather and traffic information, load restrictions, road conditions and construction updates on the state's highways just by accessing their wireless device. Weight in Motion (WIM) is another DOT application used in various rural areas to calculate a truck's weight, axle width and speed by using devices buried under roadways. This information needs to be relayed in real-time to patrol cars in the area. The current deployment of the new Radio system to the existing tower infrastructure allows for connectivity, but at slow speeds (typically less than 19.2Kbps). Increased speeds would enhance the operational capabilities of all applications including the download of web information, crash reports, etc.

The North Dakota University System's goals of anytime/anywhere connectivity and low-cost network access are not only critical to the eleven campus locations and their immediate communities, but also to rural and small communities. Requirements for the latter areas include applications such as Ag Extension which has connectivity requirements with the research extension centers (RECs), and the UND Medical School's video conferencing needs which encompass instructional and research activities across medical facility regions throughout North Dakota and surrounding states.

Future. With the ever-increasing size of today's mobile workforce, it is expected that both wireless, and to a lesser degree satellite, will become key components of STAGEnet 2006 and enable network access to the most rural and regional locations. Also, increased wireless capability will give North Dakota an efficient communications tool for an increasingly mobile workforce anywhere in the state. Access to information faster and in real-time and the resultant increase in data accuracy and productivity are just some of the benefits of a more expansive wireless network, particularly enabling law enforcement to increase productivity and officer safety.

The desired wireless solution would provide broadband bandwidth, VPN capability and statewide coverage for numerous services to the many different types of devices in the field, regardless of time or location. STAGEnet 2006 should have the ability to offer increased statewide capacities for a larger constituency, as well as positioning North Dakota as a national leader in state communications technology.

ITD should leverage existing infrastructure in both technologies to provide, at minimum, "hotspot" services in order to enhance service capabilities and bring network access to as many, if not all of the 210 communities statewide. As part of the wireless initiative, ITD is also re-evaluating the current support for cellular telephones throughout the state and local government agencies. ITD envisions this statewide wireless network through partnerships or consortia, with strategically placed network access points (NAPs) on the STAGEnet 2006 high-speed backbone.

Internet Access

Current. Internet services are currently provided by two independent, and dedicated OC-12 circuits directly connected to an internet Tier 1 provider. This configuration provides for diversity and supports BGP, IPv6, I1, and I2 services.

Future. With increased use of statewide internet access, particularly within the NDUS, it is essential that STAGEnet's infrastructure continue to provide Tier 1 fiber access at increasing access rates. Among the services most desired are:

- Network end-point expansions and growth
- Network core expansions and capacity growth
- Enterprise VPN solutions
- Remote access options
- Increasing demand for QoS for voice and video applications
- Rural and local wireless access solutions

Key Technology and Features

The following are technologies that are being explored for viability in meeting the STAGEnet 2006 Telecommunications Refresh project requirements. Figure 3 shows the connections at the node-level.

Technology

Wavelength technology, such as Lambda, would offer virtually unlimited bandwidth while providing the most scalable and flexible self-healing backbone. This technology could be a prime incentive for commercial investment in the state and could be an attraction for top-level researchers at both NDSU and UND.

OC-X technology is widely used today and this technology has the ability to configure 802.17 RPR. ITD needs the flexibility to provision bandwidth to suit requirements and should pursue clear channel throughout the backbone.

Optical fiber infrastructures have been developed throughout the state. Access to Dark Fiber for purposes of leasing is a strategy that ITD could pursue.

Wireless broadband, using either cellular or satellite services for statewide government and consumer use, or a “hotspot” service as an alternative, would provide service for major centers throughout the state. Wireless “canopies” have received support from state and local government. Other options being evaluated are 802.11x, EvDO, and WiMax. ITD is interested in finding out whether there may be opportunity to create a partnership, or consortium-type arrangement with multiple providers.

DSL/cable is currently used to provide low-cost broadband to as many of the state’s agencies’ remote locations as possible. This is used mainly for small remote offices, but also for telecommuting from home offices.

Even though **satellite access** has a maximum bandwidth of 128k, this technology is an asset that could be used to augment, or backup, key remote locations throughout the state. The DOT currently uses weather stations in very remote locations for highway alerts, road conditions, changing weather patterns, etc.

Figure 3 below shows a high-level detail of the connections at the node level.

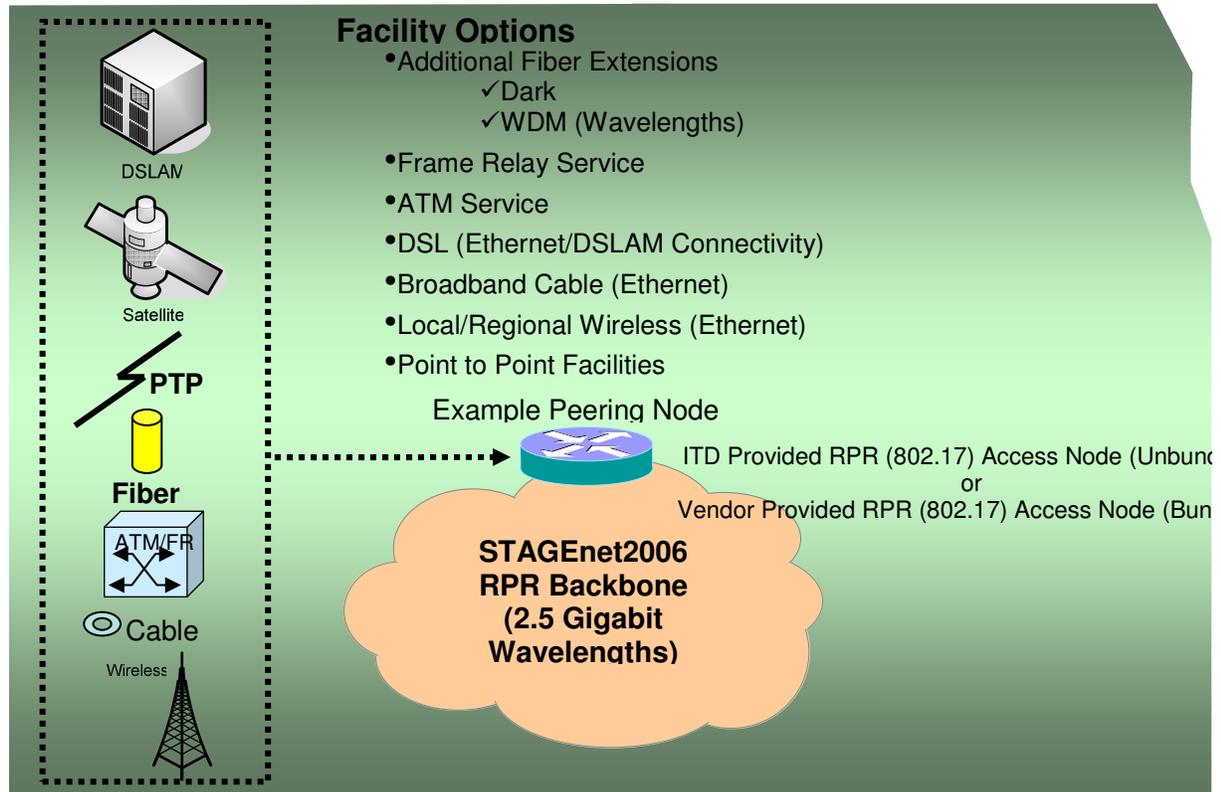


Figure 3 – STAGEnet 2006 Node level diagram

Features

Bandwidth – Applications such as video, ConnectND, and others are starting to require large amounts of bandwidth. STAGEnet 2006 needs to have the ability to provide bandwidth on demand.

Quality of Service (QoS) – Increased use of video applications and IP convergence are but two of the applications requiring QoS. The future network environment will require network traffic prioritization.

Virtual Private Networks (VPNs) – VPNs are essential in today’s networking environment and preferred for logical separation of networks.

Virtual Local Area Networks (VLANs) – VLANs are a preferred method of configuring logical separation and providing added security for diverse functions. VLANs for DOT, DHS, JS, K-12, HECN, Law Enforcement, and county courthouses are desired today.

Accessibility – It will be essential to understand the provider’s network and how diversity and the delivery of bandwidth will be guaranteed, not only within the STAGEnet infrastructure, but also within the service provider’s network. The preferred approach is for the provider network to deliver service for STAGEnet from locations within the state, preferably within the Bismarck and/or Fargo

areas, or in one or more of the established network nodes providing diversity throughout the backbone.

Manageability – Manageability defines the capabilities for applying additional and/or modified security configurations on an as needed basis, as well as performance reports and root cause analysis.

Scalability – The state should have the ability to provision bandwidth on demand, with guarantees of availability and optimal route selection within the provider network.

Security – Physical separation of 4 main network users: state/local Government; North Dakota University System (NDUS); Interactive Video Network (IVN); K-12.

Reliability – Latency is a major issue with new applications. QoS will need to be configured throughout the entire network, not just on the Video Network.