

Request for Proposal: 2023 Wide Area Network

E-Rate Category 1 FY 2023

January 25, 2023



PAPILLION LA VISTA
COMMUNITY SCHOOLS

Be known for greatness

420 S. Washington Street
Papillion, NE 68046

<https://www.plcschools.org/rfp>

DEADLINE FOR **QUESTIONS**: Friday, February 17, 2023 at 4:00 P.M. CST
DEADLINE FOR **SUBMISSIONS**: Monday, March 6, 2023 at 11:00 A.M. CST

Contents

Section 1: Proposal Overview and Details	4
1.a General Introduction and Scope	4
1.b RFP Timeline	5
1.c Pre-Bid Meeting/Video Conference Call	5
1.d Pre-Bid Walk Throughs and Floor Plans	5
1.e Clarifications, Discrepancies, Omissions or Interpretations	6
1.f Vendor Questions and Clarifications	6
1.g Receipt of Proposals	7
1.h Acceptance and Proposal Opening	8
1.i Contractual Obligations	8
1.j Subcontractors	9
1.k Contingencies	9
1.l Billing and Payment Terms	10
1.m Project Schedule and Delivery	12
1.n Taxes	12
1.o Award Criteria and Evaluation Process	12
1.p Contract Term	13
1.q Facility Maintenance	13
1.r Connection Upgrades and Possible Future Contract Additions	13
1.s Completion Timeline and Notification	14
1.t Service Terminations	14
1.u Exclusion of Persons with Criminal Records	14
1.v Assurance of Non-Collusion	15
1.w Failure to Perform	15
1.x Governing Laws	15
1.y Procurement Statement of Non-Preference	15
1.z Notice of Non-Discrimination	16
Section 2: Wide Area Network Specifications	17
2.a Entity Demarcation Points, Equipment and Network Requirements	17
Leased Dark Fiber Option:	17
Leased Lit Option:	18
2.b Connection	19
2.c Monitoring and Maintenance	19
2.d Usage of Data Connection	19
2.e VLANs	20

2.f Trouble Reporting and Management	20
2.g Demarcation Point Moves	21
2.h Network Pathways	21
Section 3: Wide Area Network Designs	22
3.a General Scope	22
3.b WAN DESIGN OPTION A1 - CURRENT LAYOUT (DARK)	22
3.c WAN DESIGN OPTION A2 - CURRENT LAYOUT (LIT)	22
3.d WAN DESIGN OPTION B1 - DUAL HOME LOAD BALANCED AGG (DARK)	22
3.e WAN DESIGN OPTION B2 - DUAL HOME LOAD BALANCED AGG (LIT)	23
3.f WAN DESIGN OPTION C1 - PAPILLION TO LINCOLN (DARK)	23
3.g WAN DESIGN OPTION C2 - PAPILLION TO LINCOLN (LIT)	23
Appendix A – RFP Timeline	25
Appendix B – Vendor RFP Response Sheet	26
Appendix C - Evaluation Rubric	28
Appendix D - References & Subcontractors	29
Appendix E – Terms and Conditions	30
Appendix F - Demarcation Points	31
Appendix G - WAN Design Documents	35

**Papillion La Vista Community Schools
Request for Proposals:
2023 Wide Area Network
E-Rate Category 1 FY 2023**

Section 1: Proposal Overview and Details

1.a General Introduction and Scope

Papillion La Vista Community Schools (hereinafter referred to as "PLCS" or "District") is seeking proposals for a minimum 20 Gbps, full duplex wide area network (WAN). The WAN will connect multiple PLCS sites to the district's datacenter. Vendors may propose the Leased Dark Fiber option, or the Leased Lit Service Option, or both. Service shall commence on December 26, 2023. PLCS will accept and consider proposals from any viable, cost-effective vendor(s) who can provide products and services that meet the specifications laid out in this RFP.

The PLCS is seeking proposals for two different network options, with three iterations of design layouts each:

- A Leased Lit Fiber Network option which is defined as any technology neutral point-to-point broadband service that provides the desired connectivity end-to-end. This option includes any other type of transport service - A technology-neutral service delivered over a service provider or other third-party owned network that delivers the bandwidth speeds and meets the uptime, latency, and jitter specifications outlined in the leased lit fiber option.
- A Leased Dark Fiber Network option which is defined as either existing fiber-optic cable, or fiber-optic cable that is installed for the use of PLCS for the duration of the contract. The fiber-optic cable is maintained by the service provider, but PLCS provides, operates and maintains the electronics to light the fiber. PLCS intends to utilize optics and light the dark fiber at speeds ranging from 20 Gbps up to 100 Gbps on the various strands utilized for WAN connectivity.

Connections will provide private WAN fiber connectivity to identified PLCS facilities with 100% fiber optic connectivity. Internet connectivity/service is NOT part of the bidding process.

It is anticipated that some or all of the costs associated with this bid shall be eligible for the E-Rate discount under the Federal Communications Commission (FCC) Universal Service Provision (FCC 97-157); therefore, the winning vendor must understand and comply with all FCC rules and regulations relative to the E-Rate program. All bidding vendors must be E-rate eligible and have an updated Form 473 (SPAC) on file to provide

the services requested and provide their Service Provider's Form 498 ID (formally known as SPIN) as part of this RFP. Additionally, the winning vendor must be E-Rate eligible and file a FCC Form 499A to provide the services requested as well as have a valid Service Provider Identification Number (SPIN) as part of this RFP process.

The top vendor(s) may be asked to present their response to the District's staff in person.

1.b RFP Timeline

See Appendix A

1.c Pre-Bid Meeting/Video Conference Call

The District will hold a pre-bid meeting video conference call to review the scope of this RFP with prospective vendors and address any questions on Thursday, February 16, 2023 at 10:00 A.M. CST. Vendors are welcome to join via Zoom Video Conference or in person at the District Technology Training Center. Visuals may be referenced during the meeting, so if joining via Zoom it is recommended you join from a device with a screen via the link below.

Meeting Date/Time: Thursday, February 16, 2023 at 10:00 A.M. CST

Zoom Video Conference:

Topic: PLCS RFP 2023 Wide Area Network Pre-Bid Meeting
Time: February 16, 2023 10:00 AM Central Time (US and Canada)

<https://plcschools.zoom.us/meeting/register/tJlrf-2hpjsgGdfBu8x53lIOxHXI8HfQ22we>

In Person:

PLCS Technology Training Center
410 S Adams Street, Suite 103, Papillion, NE 68046

1.d Pre-Bid Walk Throughs and Floor Plans

Pre-bid walk throughs will be available by appointment only. To schedule an appointment, please email technology@plcschools.org. For efficiency purposes, several vendors may be grouped together during the scheduled walk throughs.

Floor plans are available for most facilities listed in Appendix F. If desired, floor plans can be obtained by emailing technology@plcschools.org.

1.e Clarifications, Discrepancies, Omissions or Interpretations

Vendors shall promptly notify the District via email (technology@plcschools.org) of any ambiguity, inconsistency or error which they may discover upon examination of the RFP documentation. Vendors requesting clarification or interpretation of the RFP shall follow the guidelines specified in section 1.e “Vendor Questions and Clarifications” below.

Addenda issued in correspondence to this RFP shall be considered a part of this RFP and shall become part of any final contract that may be derived from this RFP. This RFP and its addenda will be part of any possible future contract with a successful vendor(s). It is the bidder’s responsibility to assure that all addenda have been received and reviewed. Any addendums issued will be posted online under the Technology section of our RFP website at <https://www.plcschools.org/rfp>.

1.f Vendor Questions and Clarifications

All inquiries concerning this RFP will only be addressed in writing via email prior to the posted deadline below, verbally at the pre-bid meeting or at building walkthroughs. It is the responsibility of vendors to obtain any necessary additional information and clarification regarding this request for proposal. The District is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this request for proposal.

Final written questions should be addressed no later than Friday, February 17, 2023 at 4:00 P.M. CST to:

PLCS Technology Department
Attn: Lucas Bingham
Re: RFP for 2023 Wide Area Network
E-Mail: technology@plcschools.org

Any inquiries received after February 17, 2023 will not be answered. All submitted questions and answers will be reviewed and a comprehensive list of all questions and answers will be posted online under the Technology section of our RFP website at <https://www.plcschools.org/rfp>. A full list of all questions and answers will be available by Monday, February 20, 2023 at 4:00 P.M. CST.

Post-bid questions: Vendors will have 24 hours after vendor selection is announced to raise any questions. The District will have the final authority to the resolution of all questions.

1.g Receipt of Proposals

All proposals must be received by 11:00 A.M. CST on Monday, March 6, 2023 at the Papillion La Vista Community Schools Central Office, 420 S. Washington Street, Papillion, NE 68046. At which time, proposals will be opened and reviewed publicly. Vendors are welcome to submit proposals prior to the start of the bid opening or via any of the alternate methods described below.

Proposals can be delivered during normal business hours, 7:30am – 4:30pm Monday – Friday or sent via the vendor’s preferred carrier if they are received by the deadline. The district is not responsible for any carrier delays, including inter-district mail delays. Inter-district mail can take 24+ hours to arrive at its destination within the District after being received by the District’s distribution center.

E-mailed electronic submissions will be allowed in PDF format only. Electronic submissions should be emailed to technology@plcschools.org. E-mailed documents will be time-stamped from the receiving computer. The district is not responsible for submissions not received on time due to technical difficulties by either party.

Summary of Acceptable Submission Methods

Method	Information
Mail/Carrier	PLCS Technology Department Attn: Lucas Bingham Re: 2023 Wide Area Network RFP 420 S. Washington Street Papillion, NE 68046
E-Mail (PDF)	PLCS Technology Department Attn: Lucas Bingham Subject: 2023 Wide Area Network RFP E-Mail: technology@plcschools.org
In Person	Business Hours: 7:30am – 4:30pm M-F 420 S. Washington Street Papillion, NE 68046 NOTE: Guests will need to enter via the secure entrance on the South side of the building.

All proposals received after 11:00 A.M. CST on Monday, March 6, 2023 will not receive consideration.

Proposals are public record and shall not be considered proprietary or confidential.

Vendor responses must include at least one copy of Appendix B filled out.

It is anticipated and acceptable for vendors to provide multiple options that meet the requirements outlined in this RFP. For example, vendors could provide proposals for leased lit service(s) as well as a dark fiber option(s). Copy and fill out a separate Appendix B with full details if multiple iterations of proposals are submitted.

Please include the items listed below in all proposal submissions (if submitting hard copies, please include two originals).

Proposal Submission Checklist:

- Bid Proposal Form(s) – All of Appendix B (required)
- Bid Response Spreadsheet (required)
- References & Subcontractors – Appendix D (required)
- Specification or cut sheet(s) on the proposed services/products
- Any relevant support information
- Any relevant service information
- Any additional relevant information

1.h Acceptance and Proposal Opening

Once proposals are opened, they become property of PLCS and will not be returned. This RFP does not commit the District to award a contract. The District reserves the right to reject any and all proposals, and at its discretion, may withdraw or amend this RFP at any time. All vendors responding to this RFP will be notified, in writing, once an award decision has been determined.

Proposals will be opened at the Papillion La Vista Community Schools Central Office (420 S. Washington Street, Papillion, NE 68046) on Monday, March 6, 2023 at 11:00 A.M. CST. This is a public meeting and any interested parties may attend the proposal opening in person or virtually.

Opening Date/Time: Monday, March 6, 2023 at 11:00 A.M. CST

Zoom Video Conference:

Topic: PLCS RFP 2023 Wide Area Network Bid Opening
Time: March 6, 2023 11:00 AM Central Time (US and Canada)

<https://plcschools.zoom.us/meeting/register/tJwpduChqTwpGtS7F-QZUtCEHrMr8nalnipC>

1.i Contractual Obligations

The requirements contained in this Request for Proposal are a part of the terms and conditions of any future agreement(s) with prospective vendor(s). Any deviations from the Request for Proposal must be clearly defined by the vendor(s) in its proposal, and if accepted by the District, will become part of the agreement. Any specifically defined

deviations must not conflict with the basic nature of the Request for Proposal or mandatory requirements.

The terms and conditions contained within this RFP will always supersede any future contractual language or agreements with selected vendor(s).

Proposer is expected to provide the lowest corresponding price per E-rate rules. See <https://www.usac.org/e-rate/service-providers/step-2-responding-to-bids/lowest-corresponding-price/> for details.

All Proposer costs must be reflected in either the monthly recurring or non-recurring charges. All fees, taxes and pass-through charges such as NUSF must also be identified/listed in the cost. No additional charges will be accepted.

1.j Subcontractors

The district intends to select one primary contractor to award the project to. If a contractor is not able to fulfill all portions of the job, they are responsible for obtaining and providing pricing from qualified subcontractors to include with their bid response. Subcontractors must be identified in appendix D and approved by PLCS.

If the vendor is approved to utilize subcontractor(s) for any part of the contract or services, it is the vendor's responsibility to supervise the subcontractor's performance and to ensure that the subcontractor meets all bid requirements. Failure to do so may result in termination of the bid.

Successful bidder shall not assign the contract to another vendor without prior consent of the School District.

1.k Contingencies

This RFP should not be considered as a contract to purchase goods or services but is a Request for Proposals in accordance with the Terms and Conditions herein and will not necessarily give rise to a contract. However, RFP responses should be as detailed and complete as possible to facilitate the formation of an agreement based on the RFP response(s) that are pursued should PLCS decide to do so. Proposals stating that pricing is valid dependent upon availability and/or subject to prior sale will be considered as non-responsive. Completion of this RFP form and its associated Appendices are a requirement. Failure to do so will disqualify the RFP response submission from consideration.

Vendors must submit sealed RFP responses by the due date and time as specified herein. Electronic submissions will be accepted if created in PDF format and emailed to technology@plcschools.org by the due date and time as specified herein. Date and time

stamp of the receiving computer will govern all emailed submissions. Vendors will be considered non responsive if the above requirements are not submitted as requested.

The School District reserves the right to accept or reject any or all bids and any part thereof and to waive all technicalities or resubmit for new proposals through a revised RFP. Awards will be made in the best interest of the District. PLCS also reserves the right to adjust, add or remove materials or quantities from the final agreements. Vendors shall hold their submitted pricing firm regardless of final quantities purchased.

PLCS may, at its discretion, choose to cancel its offer for the purchase of goods or services requested in this RFP if there is a reduction in funding, there are changes in the physical structure of a school (i.e., renovations, demolitions), drastic reductions in enrollment, or for any other reason.

In the event there are PLCS budget restraints, or any other reasons, PLCS reserves the right to re-negotiate costs with any selected vendor(s). The total quantities of items or scope of services purchased may change. PLCS has provided information to best describe the scope of this RFP.

Any and all installation charges, also known as one time non-recurring costs (NRC) must be identified on your proposal. If you submit a proposal indicating that installation charges may apply without listing those charges, we will consider your proposal incomplete and disqualify your proposal.

Vendors must propose all connections within each design as a whole. For example, if submitting a response to design B2, all circuits listed in the Demarcation Points in Base Bid table must be included. If vendors submit a proposal missing any required base bid connections, we will consider your proposal incomplete and disqualify your proposal.

By submitting a proposal, proposer certifies that the proposer does have a valid (non-red light status) SPIN for the E-rate program at the time of submission. Should PLCS discover that the proposer is on red light status, or if the FCC classifies the proposer as on red-light status before work is performed and invoices are paid, the contract will be null and void and the applicant will have no payment obligations to the proposer.

Proposer will be automatically disqualified if PLCS determines that the proposing company has offered any employee of the District any individual gift of more than \$20 or gifts totaling more than \$50 within a 12 month period.

1.1 Billing and Payment Terms

PLCS intends to apply for and use USAC E-Rate funding discounts for this service. Proposer must agree to participate in USF Program (AKA "E-rate") for the corresponding funding year(s). It is anticipated that some or all of the costs associated with this RFP shall be eligible for the E-Rate discount under the FCC Universal Service Provision

(FCC97-157); therefore, the winning vendor must understand and comply with all FCC rules and regulations relative to the E-Rate program. All bidding vendors must be E-rate eligible and have an updated Form 473 (SPAC) on file to provide the services requested and provide their Service Provider's Form 498 ID (formally known as SPIN) as part of this RFP. The winning vendor(s) must be E-Rate eligible and file a FCC form 499A to provide the services requested as part of this RFP and the derived contract.

All billing statements must itemize all charges and credits such as outage credits and USAC SLD credits. Final authorization by PLCS for services MAY be contingent upon the award of funding (a funding commitment decision letter) from the Schools and Libraries Division of USAC for the 2023 E-Rate Funding Year.

Any costs which are not eligible for E-rate discounts must be identified.

PLCS BEN: 138271

IMPORTANT: PLCS will only accept discounts on invoices; therefore, the winning vendor will file an FCC Form 474 (Service Provider Invoice Form) to request payment of the discount amount for eligible services after billing the applicant for the non-discount share of the cost of services. The vendor shall itemize the cost of E-Rate eligible and ineligible items and will provide copies of all invoices to PLCS for reconciliation purposes.

Billable services approved for funding shall not begin before April 1, 2023 and not be billed before July 1, 2023.

The selected vendor will provide these monthly invoices for MRCs (monthly recurring charges) with NET 60 DAYS terms as for each billing cycle.

Pricing must be held firm for the duration of each E-Rate year. In the event of questions during a potential USAC E-Rate PIA review process, the successful vendor is expected to reply within three (3) days to questions associated with their bid.

All invoices must include an itemized list of charges. Invoices are expected to be received by our accounts payable department no later than the 15th of each month. Invoices are processed and checks are issued on the last day of each month. These checks are reviewed by our Board of Education at their first meeting which is held on the second Monday of each month. Once approved, these checks are mailed on Tuesday morning following said board meeting.

The DUNS Number for SCHOOL DIST NO 27 PAPILLI is 075780530.

1.m Project Schedule and Delivery

PLCS expects delivery of operational network services by December 26, 2023, unless otherwise noted in writing. Delivery of any raw materials should be included and account for liftgate delivery service to the address below. **NOTE: there is not a dock at this location, liftgate service must be included.**

PLCS Technology Center
243 W. Grant Street
Papillion, NE 68046

PLCS recognizes the COVID-19 worldwide pandemic has impacted materials availability. The District should be kept apprised of any potential delays or known issues with meeting the December 26, 2023 deadline for this project. District personnel will work with vendors if needed to make any necessary deadline extensions due to legitimate delays or material shortages.

1.n Taxes

PLCS is a governmental subdivision and is exempt from local, state, and federal taxes (05-060-1969). Tax exemption certificates will be furnished as needed.

All applicable fees, surcharges, and taxes (such as Universal Service fees) must be identified on the proposal. E-rate rules require the applicants to evaluate the price of eligible goods and services that will be listed on the 471 application during the competitive proposal process. Fees and surcharges that apply but are not listed on the proposal will be the responsibility of the proposing company, should their proposal be awarded.

PLCS, a governmental subdivision, is also exempt from the payment of Federal excise tax. Bidders should exclude excise tax on all taxable items in their bid submissions. A Federal Excise Tax Certificate will be furnished for all taxable items. Please indicate on your bid the items requiring the exemption certificate.

1.o Award Criteria and Evaluation Process

PLCS reserves the right to be the sole judge of what is in the best interest of The District. In addition to cost, quality, service, support, vendor history and other items may be considered as contributing factors for award of any final contract. Please refer to Appendix C for further details regarding the evaluation process.

All contracts awarded will be contingent upon E-rate funding and final board approval. The applicant may choose to do all or part of the project upon funding notification.

1.p Contract Term

The term for any design option shall be December 26, 2023 to June 30, 2033 and shall include an option providing for up to two five-year extensions beyond the original contract period upon agreement of both parties. E-rate rules require comparing the cost of the Leased Dark Fiber Network option to Leased Lit Fiber Network option and awarding the most cost-effective network option to receive funding.

Vendors may propose the Leased Dark Fiber option, or the Leased Lit Service Option, or both.

Service providers/prospective vendors that refer to a state contract should respond to this RFP and attach the state contract clearly indicating in their response a state contract is being referenced in the response/pricing.

1.q Facility Maintenance

PLCS understands that from time to time maintenance will cause scheduled outages outside of peak/normal operating hours of 6:00 A.M. – 10:00 P.M. CST. PLCS does not expect outage credit for scheduled outages unless the outage was not communicated to the specified District contact(s) prior to the maintenance window. PLCS must be notified at least ten (10) business days in advance of any planned maintenance.

1.r Connection Upgrades and Possible Future Contract Additions

PLCS understands that bandwidth needs may or may not increase during the contractual period. If an increase in bandwidth is requested during the contract period, the contract does not extend or renew. Monthly pricing, including any one-time construction costs for the following connection upgrades must be included with proposal submissions for lit services: 20 Gbps (base) and 40 Gbps (and up to 100 Gbps for design option C). If specific speed(s) are not available, please state so in responses.

The District may add additional facilities to this agreement at a price not to exceed the vendor's actual cost to construct the additional facilities. Monthly recurring charges (MRC) and any Non-recurring charges (NRC) for these additional sites to be added during the term of the contract will be included on the pricing sheet(s) provided in response to this RFP.

The Proposer will include MRC and NRC costs for any additional facilities, added to this contract by the District during the term of this contract, to their pricing sheet(s) as part of this RFP.

1.s Completion Timeline and Notification

The successful vendor shall have installation, setup, configuration and testing of the contracted service completed on or before the end of day on December 26th, 2023 assuming timely USAC E-Rate approval. All timing is dependent on USAC E-Rate approval from the District's application.

Allow approximately two weeks for Notice to Proceed from PLCS after receipt of USAC E-Rate application approvals. Vendor shall prepare a schedule showing any construction, installation, setup, configuration and testing timelines and milestones. These documents should be submitted within five (5) business days after the Notice to Proceed to technology@plcschools.org.

Notice of completion of installation, setup, configuration and testing of the contracted services as well as detailed documentation showing any applicable testing results, pathways, etc. by the vendor are required to be sent to technology@plcschools.org.

In such event completion is not met prior to the end of day on December 26, 2023, PLCS shall be entitled to deduct from any payment due to the vendor, the amount of up to \$300 per day until completion and the contracted service is fully operational or terminate the contract as a breach of service with no payment to the vendor.

The only exception to this would be notice and approval of delay in writing from PLCS. No change in the completion deadline shall be made unless pursuant to a written change that is approved by PLCS. No claim for an increase in the amount to be paid by vendor or any extension of time to complete the installation, setup, configuration and testing shall be valid unless allowed by such written change request.

1.t Service Terminations

The vendor must provide provisions for service termination for cause which includes, but is not limited to: consolidation, merged and dissolved contracting entities, and nonperformance. Termination for cause must be detailed in the proposal.

1.u Exclusion of Persons with Criminal Records

Papillion La Vista Community Schools requires that firms agree to not assign any individual or agent to any work on an awarded project, requiring work on a PLCS school site, with a criminal record of a serious nature as defined by PLCS policy, regulations, practices or directives, including but not limited to any of the following: (a) a felony; (b) rape, including statutory rape, or any other sexual assault; (c) sexual conduct with a minor of any kind; (d) abuse of a minor or child of any kind; (e) endangerment of a child or debauching a minor; (f) public indecency; (g) prostitution, pandering, or keeping a place of prostitution; (h) assault or battery; (i) kidnapping, false imprisonment or

abduction; (j) child pornography; or (k) any offense in which a minor was a victim or a witness.

The Vendor shall certify that it shall not assign any individual or agent to work on any PLCS property with a criminal record of a serious nature as defined by PLCS policy, regulations, practices or directives. Vendor authorizes and gives consent, and agrees to cooperate in obtaining any additional authorization or consent necessary to assure compliance with this requirement; to actively continue and implement this policy throughout the contract period and to require implementation of this policy by any subcontractors and/or agents involved by the Vendor in the performance of the contract. Vendor authorizes and gives consent, and agrees to cooperate in obtaining any additional background check authorization or consent necessary to assure compliance with this requirement.

1.v Assurance of Non-Collusion

The bidder's submission of its bid response is the bidder's representation and guarantee to the Papillion La Vista School District that the prices quoted have been arrived at without collusion with any other eligible bidders and without an attempt to preclude Papillion La Vista Community Schools from obtaining the lowest possible competitive price, influencing the prices quoted by any other eligible bidder or discouraging other potential bidders from bidding.

1.w Failure to Perform

In the event the successful bidder fails to perform in good faith or in accordance with the terms and conditions of this bid, the bid shall be terminated, and the School District may award the bid to another vendor.

1.x Governing Laws

The Laws of the State of Nebraska shall govern this RFP and any submitted proposals or executed contracts.

1.y Procurement Statement of Non-Preference

It is the intent of PLCS to procure a product in the size, quality, and parameters of the described specifications. Sometimes, for facilitation of proposal procedures only, a certain manufacturer, product, or vendor will be utilized to help streamline this process. However, PLCS invites and encourages all qualified proposers to submit equivalent proposals. The primary purpose is to ensure that no interested party is excluded or limited from the proposal process. All proposals are evaluated equally, based on criteria described in this RFP.

1.z Notice of Non-Discrimination

The Papillion La Vista Community Schools does not discriminate on the basis of race, color, national origin, sex, disability, religion, age or other protected status in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Students: Dr. Trent Steele, Director of Secondary Human Resources and Student Services, 420 South Washington Street, Papillion, NE 68046 (402) 537-6214 (trent.steele@plcschools.org).

Employees and Others: Dr. Kati Settles, Assistant Superintendent Human Resources, 420 South Washington Street, Papillion, NE 68046 (402) 537-6206 (kati.settles@plcschools.org).

Complaints or concerns involving discrimination or needs for accommodation or access should be addressed to the appropriate Coordinator. For further information about anti-discrimination laws and regulations, or to file a complaint of discrimination with the Office for Civil Rights in the U.S. Department of Education (OCR), please contact OCR at One Petticoat Lane, 1010 Walnut Street #320, Kansas City, Missouri 64106, (816) 268-0550 (voice), or (877) 521-2172 (telecommunications device for the deaf), or ocr.kansascity@ed.gov.

For the most up to date nondiscrimination notice from PLCS, visit our website here: <https://www.plcschools.org/domain/779>

Section 2: Wide Area Network Specifications

2.a Entity Demarcation Points, Equipment and Network Requirements

The successful vendor will hand off the connection to a District owned Layer 3 routing device via fiber connection (specific type specified below by the District). Proposals must include a detailed description of vendor demarcation equipment. This should include any submittals for patch panels, innerduct conduit, terminations, building entry pathways/penetrations, etc.

All equipment installed by the vendor, including any cabling that is routed throughout the building shall be visibly marked as fiber optic cabling with vendor's identification information such as vendor name and the 24/7/365 NOC telephone number.

The specific demarcation points within the building, designated by the district, will be located at secure locations on both ends. The demarcation point shall only service Papillion La Vista Community Schools. No demarcation points shall supply connections or service to anyone other than PLCS without the written permission of an authorized district representative. The vendor is responsible for all costs, including but not limited to: construction, installation, repair and maintenance of WAN connectivity to and between the demarcation points. See Appendix F for a list of the demarcation points.

All telecommunications pathways and spaces must comply with all applicable code for the locations and pathways being installed.

Leased Dark Fiber Option:

Leased dark fiber service is leasing a number of fiber strands on a proposer owned network, along with services for technical support, maintenance, and operations of the leased dark fiber strands. PLCS will be responsible for procuring the network equipment necessary to provide lit service over the leased dark fiber strands, along with technical support, maintenance, and operations of the PLCS network equipment (PLCS currently has the necessary equipment to light and connect the fiber, but may choose to refresh this equipment in future funding years). Each Proposer will provide cost-effective, scalable and flexible fiber-based infrastructure that connects these locations to the existing fiber-based infrastructure as specified in this RFP. The Proposer must propose all costs to provide connectivity, maintenance, operation, and routing equipment.

Vendor will hand off the connection via a pre-terminated connection to District equipment with a direct, dark connection between the specified demarcation points. Service entrance cable should include at least six (6) strands of dark fiber optic cable that can be actively lit/used at the time of service commencement.

IRU – Vendors are encouraged to propose an Indefeasible right of use (IRU) agreement for this RFP if possible.

The Proposer shall provide all Fiber Optic cables, Pigtail assemblies, Outdoor Splice Cases and Trays, Handholes, Ducts, Locate Wire, Pull Boxes, and any other consumables and installation hardware necessary to construct and terminate the leased dark fiber network. In addition, the Proposer shall perform all Fusion Splicing, Indoor Fiber Terminations, Cable Testing, and Test Documentation.

The proposer shall provide comprehensive specifications for their proposed special construction solution and provide invoice level detail on associated costs. The provided connection must be tested to prove performance before it will be considered complete and usable.

Proposers should provide information on the age, type, and performance of the fiber they are proposing to lease, including a description of all applicable splice loss budgets compared to actual OTDR test results of each fiber strand in both directions.

PLCS intends to utilize optics and light the dark fiber at speeds ranging from 20 Gbps up to 100 Gbps on the various strands utilized for WAN connectivity.

Leased Lit Option:

Vendor will provide switching or other edge equipment to hand off the fiber optic connection to District equipment. Vendor must also include a dedicated rack mount Uninterruptible Power Supply (UPS) for all equipment with a minimum runtime of two (2) hours. All equipment between demarcation points must be able to withstand a minimum runtime of two (2) hours without utility power. The vendor is fully responsible for maintenance and care of all equipment including any switching hardware and UPS devices installed. The equipment shall be fully monitored (including UPS, switchgear and connectivity) 24/7 by the vendor.

The proposer is expected to own the broadband infrastructure over which the service is delivered. The proposer also will provide all equipment, technical support, maintenance and operations of both the equipment and broadband infrastructure for this service.

The Proposer's Leased Lit Fiber Network solution will include connectivity between the PLCS locations as identified in appendix F. THERE SHALL BE NO INTERMEDIATE CONNECTION POINTS AT ANY LOCATIONS OTHER THAN PLCS LOCATIONS. The Proposer shall ensure that the proposed Lit Fiber Network solution allows secure data transportation between the PLCS locations, and that the connections support the full speeds in both directions at all times. If there are special construction costs required to provide this full and direct connectivity between the end-points, vendors may list those special construction costs separately from the MRC (monthly recurring charge) for each site.

The Proposer shall provide non-recurring costs (NRC) for design, engineering and project management for the special construction of the network facilities (i.e., development costs). In addition, the Proposer will provide NRC for the special construction of the leased lit fiber network and its maintenance for a leased lit fiber network capable of supporting a high-speed, IP-based, wide area network to interconnect the locations listed in appendix F.

Proposers should provide information on the age, type, and performance of the fiber they are proposing to lease, including a description of all applicable splice loss budgets compared to actual OTDR test results of each fiber strand in both directions.

2.b Connection

Successful vendor(s) will provide WAN connections as outlined in WAN design documents to PLCS facilities between the demarcation points using 100% fiber optic cable. Successful vendors must supply throughput of the contracted capacity (including any hub site pass throughs). Detailed testing procedures to meet the connectivity requirements must accompany bid proposal documents. Monthly pricing, including any one-time construction costs, connection upgrades, etc. must be included with proposal submissions. If future upgrades are not available, please state so in responses.

2.c Monitoring and Maintenance

Cost will include vendor provided 24x7 monitoring, repair and maintenance to WAN connections. If the connections are leased lit connections, please provide description of the service and monitoring strategy. If it is a dark connection, please provide details on how the repair and maintenance support structure operates.

Access to performance service metrics is required, with a preference toward live metrics.

2.d Usage of Data Connection

Vendors must allow all types of data traffic to transport from end-to-end without interference, trapping or recording of information. For lit services, traffic over the connection with a MTU of 1500 shall not be fragmented by the vendor. Detailed testing procedures to meet the speed being requested must accompany bid documents.

Vendor shall provide the full bandwidth to each location, and at no time shall the vendor limit or throttle the capacity of the circuit at any time, for any reason. Additionally, the vendor shall provide a sample Service level Agreement that outlines the vendor's guarantees with regard to network functionality and availability.

Layer 2 performance must be adequate to support jitter and latency sensitive applications (i.e. video over IP).

Vendor must allow participating institutions to manage their own IP address space and routing.

2.e VLANs

If lit/managed services are selected, successful vendor proposal solutions must be able to provision and support 802.1Q-in-Q VLAN tagging as well as give PLCS the ability to establish site-to-site VPNs as desired, both without additional costs and without provider interaction/interruption. Vendor must route all existing District network traffic without restrictions within the required bandwidth speeds. The connection should be able to pass all network traffic as if it were a dark connection from the PLCS data center to the all connected sites.

PLCS WILL NOT coordinate customer VLAN tags with the provider; the provider must either tunnel the customer VLAN tags through the provider network or must leave the customer VLAN tags unchanged from end-to-end.

2.f Trouble Reporting and Management

A successful vendor shall make all reasonable efforts to ensure 99.99% network availability on each circuit. The Proposer must operate its own Network Operations Center(s) and provide a centralized trouble reporting and maintenance system that is staffed 24 hours a day, seven days a week. The Proposer shall provide PLCS with a local and toll-free number for trouble reporting.

Leased lit networks must have a monitoring system to proactively report issues and contact PLCS staff in the event of an issue. The Proposer shall provide sufficient staff for peak and critical hours. A successful vendor must monitor and manage connections on a 24/7 basis and report any outages as set forth in a documented procedure approved by the District.

Leased dark fiber networks must support production applications that require a high degree of reliability and must operate with little or no service disruptions for twenty-four (24) hours a day, seven (7) days a week. Proposer(s) must have the necessary staff for the installation, operation, and maintenance of their network. The district will self-monitor circuits if dark fiber is selected and promptly report trouble to the vendor NOC for further investigation.

For either network option, the proposer must respond to trouble reports within one (1) hour of notification. The Proposer must also provide an escalation procedure and

contact list to be used for unresolved issues, including names, titles and phone numbers of contact persons in the escalation chain. Major service-affecting problems that are not resolved within two (2) hours of time after the notification of trouble shall constitute a prolonged outage and must be escalated.

Restoration of services is expected to be completed within six (6) hours unless approved by the District. Outages that exceed six (6) hours will be credited back to the District to include the original six (6) hours using a 12 hour total daytime usage and 30 days per month calculation. For example, a circuit price of \$1,000.00 per month with an outage of eight (8) hours would be credited in the following amount:

\$1,000.00 per month or \$33.33 per day
\$33.33 per day or \$2.78 per hour (day cost divided by 12 hours)
\$2.78 per hour for 8 hours = \$22.24 credit

A description of how to report trouble or issues and obtain support from the vendor network operations center must be included with all responses. The Proposer will conform to these service level agreements, and include details concerning restoration procedures and goals and escalation procedures.

2.g Demarcation Point Moves

A successful vendor shall outline the process for future demarcation point moves, should they become necessary. PLCS is a growing district with frequent facility projects which may require moving utility demarcation points.

2.h Network Pathways

A successful vendor shall provide maps of all physical pathways of existing or planned fiber optic routes. This includes a .KMZ file (or similar data set) that stores map locations viewable in various geographic information systems (GIS) applications, most notably *Google Earth*.

Details should include any applicable components for dark or lit service options, such as:

- Route assessment, maps, ROW access and/or easement requirements
- Whether fiber will be buried, strung through conduit (existing or newly installed), and/or strung aerially on poles (existing or newly installed), and any associated terms and costs (e.g., pole attachment agreements imposing make-ready costs, trenching and/or boring costs)

Section 3: Wide Area Network Designs

3.a General Scope

Three general WAN designs are laid out within the RFP, each containing a dark and lit option. Design A encompasses the current WAN layouts and is the base bid. Design B is intended to be in addition to design A which would add a secondary hub site. Design C would provide a path to Lincoln for an alternative datacenter location.

3.b WAN DESIGN OPTION A1 - CURRENT LAYOUT (DARK)

Narrative Description: Design option A1 is a continuation/replica of the PLCS current WAN design as a dark solution. This is a single home hub and spoke located at each district facility. Each site connects directly to the District Technology Center (DTC).

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 4
- Handoff Connection Type: LC/UPC
- Provide estimated light loss (in dB) calculated from patch panel to patch panel for a signal around 1550 nm.

3.c WAN DESIGN OPTION A2 - CURRENT LAYOUT (LIT)

Narrative Description: Design option A2 is a continuation/replica of the PLCS current WAN design as a lit solution. This is a single home hub and spoke located at each district facility. Each site connects directly to the District Technology Center (DTC).

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 6
- Handoff Connection Type: 10G-LR (2x) over LC/UPC SM or 40G-LR4 over LC/UPC SM as specified on drawing
- Power Available: The district will provide up to one NEMA 5-20R receptacle, provider equipment power consumption shall not exceed 1000 watts

3.d WAN DESIGN OPTION B1 - DUAL HOME LOAD BALANCED AGG (DARK)

Narrative Description: Design option B1 builds on the base PLCS current WAN design as a dark solution with the addition of a dual home load balanced connection from each building to Ashbury Elementary School.

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 4
- Handoff Connection Type: LC/UPC

- Physical Pathway: All connections must be diverse from the correlating option A connection after no more than 1,000 meters from each site.
- Provide estimated light loss (in dB) calculated from patch panel to patch panel for a signal around 1550 nm.

3.e WAN DESIGN OPTION B2 - DUAL HOME LOAD BALANCED AGG (LIT)

Narrative Description: Design option B2 builds on the base PLCS current WAN design as a lit solution with the addition of a dual home load balanced connection from each building to Ashbury Elementary School.

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 6
- Handoff Connection Type: 10G-LR (2x) over LC/UPC SM or 40G-LR4 over LC/UPC SM as specified on drawing
- Power Available: The district will provide up to one NEMA 5-20R receptacle, provider equipment power consumption shall not exceed 1000 watts
- Physical Pathway: All connections must be diverse from the correlating option A connection after no more than 1,000 meters from each site.

3.f WAN DESIGN OPTION C1 - PAPIILLION TO LINCOLN (DARK)

Narrative Description: Design option C1 builds on the base PLCS current WAN design and the dual hub load balanced aggregation design as a dark solution with the addition of a connection to Nebraska Hall in Lincoln, NE. This provides the district with full network load balancing capabilities between all sites.

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 4
- Handoff Connection Type: LC/APC
- Provide estimated light loss (in dB) calculated from patch panel to patch panel for a signal around 1550 nm.

3.g WAN DESIGN OPTION C2 - PAPIILLION TO LINCOLN (LIT)

Narrative Description: Design option C2 builds on the base PLCS current WAN design and the dual home load balanced aggregation design as a lit solution with the addition of a connection to Nebraska Hall in Lincoln, NE. This provides the district with full network load balancing capabilities between all sites.

Technical Requirements:

- Maximum Number of Rack Units (U) Available to Vendor: 6
- Handoff Connection Type: 40G-LR4 over LC/UPC SM or 100G-LR4 over LC/UPC SM as specified on drawing

- Power Available: The district will provide up to one NEMA 5-20R receptacle, provider equipment power consumption shall not exceed 1000 watts

Appendix A – RFP Timeline

RFP 2023 Wide Area Network

Item	Date/Information
RFP Posting:	Wednesday, January 25, 2023 https://www.plcschools.org/rfp
Public Notice	Papillion Times on Wednesday, February 1, 2023
Pre-Bid Meeting: <small>Attend in person or via videoconference.</small>	Thursday, February 16, 2023 at 10:00 A.M. CST https://plcschools.zoom.us/meeting/register/tJlrf-2hpjsgGdfBu8x53lIOxHXl8HfQ22we or in person at District Technology Training Center 410 South Adams Street, Suite 103, Papillion, NE 68046
Pre-Bid Walk Throughs	By Appointment Only
Written Questions Due:	Friday, February 17, 2023 at 4:00 P.M. CST
Question Responses:	Full list available after Monday, February 20, 2023 after 2:00 P.M. CST by visiting: https://www.plcschools.org/rfp
RFP Due By:	Monday, March 6, 2023 (41 Days Open) 11:00 A.M. CST Papillion La Vista Community Schools Attn: Technology Department, 2023 Wide Area Network RFP 420 S. Washington Street Papillion, NE 68046 technology@plcschools.org
RFP Opening: <small>RFP submissions will be opened at this time. This is a public meeting. Interested parties may attend the proposal opening.</small>	Monday, March 6, 2023 at 11:00 A.M. CST https://plcschools.zoom.us/meeting/register/tJwpduChqTwpGtS7F-QZUtCEHrMr8nalnipC or in person at Papillion La Vista Community Schools Central Office 420 S. Washington Street, Papillion, NE 68046 <small>NOTE: Guests will need to enter via the secure entrance on the South side of the building.</small>
Intent to Award:	After March 13, 2023
Projected Contract Execution Date:	After March 13, 2023
Delivery and Installation	Completion by December 26, 2023

January 2023						
S	M	T	W	Th	F	S
22	23	24	25	26	27	28
29	30	31				
February 2023						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

March 2023						
S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	
December 2023						
24	25	26	27	28	29	30
31						

Appendix B – Vendor RFP Response Sheet
Page 1 of 2

COMPLETED APPENDIX B REQUIRED FOR RFP SUBMISSION

For responses to be considered, Appendix B is required. It is expected to attach a bill of materials or quote detailing costs via individual line items in addition to submitting a completed copy of appendix B. The district intends to select one primary vendor per design option. If a vendor is not able to fulfill all portions of the job, they are responsible for obtaining and providing pricing from qualified subcontractors to include with their bid response. Subcontractors must be identified in appendix D and approved by PLCS.

Vendor Name: _____

Vendor SPIN: _____

Response must include the spreadsheet (linked below) filled out as part of Appendix B (the submission). Please download a copy (File > Download) of the spreadsheet and utilize it for submitting pricing and options with the required information/signatures included in Appendix B. This link is also available on the PLCS District website at <https://www.plcschools.org/rfp>.

*****DOWNLOAD AND INCLUDE WITH RESPONSES*****

Required Response Submission Spreadsheet:

[Click Here](#)

OR Follow the Link Below

https://docs.google.com/spreadsheets/d/10AVXGhcce16qBZ_p-fJcJ0-fkwHY_Q0v8b7PdmbjWTA/edit?usp=sharing

If you need a PDF version of the spreadsheet or have any access issues, please email technology@plcschools.org.

*****DOWNLOAD AND INCLUDE WITH RESPONSES*****

Accept (Initial)	I acknowledge Section 1.I Billing and Payment Terms; PLCS will only accept discount on invoices; therefore, the winning vendor will file a Form 474 (Service Provider Invoice Form) to request payment of the discount amount for eligible services after billing the applicant for the non-discount share of the cost of the equipment and/or services.

NOTICE: APPENDIX B CONTINUES ON NEXT PAGE

Appendix B - Page 2 of 2

FINAL SUBMISSION SIGNATURE (REQUIRED)

I/We, the undersigned, hereby propose to furnish the herein described devices and/or services to/for the Papillion La Vista Community Schools, Papillion, NE, in accordance with the specifications as presented in this RFP for the consideration of the amount set forth in the pricing schedule submitted above.

ADDENDA RECEIPT

The receipt of any addenda (if applicable) is hereby acknowledged. Failure of any vendor to receive any addenda or interpretation shall not relieve the vendor from obligations specified in the RFP or its addenda. All addenda shall become part of the final contract document.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND INELIGIBILITY

Vendor must certify to the best of its knowledge and belief, the vendor or any of its principals are not presently debarred, suspended, proposed for debarment or otherwise declared ineligible for the award of contracts by any Federal agency by the inclusion of the contractor or its principals in the current "LIST OF PARTIES EXCLUDED FROM FEDERAL PROCUREMENT OR NONPROCUREMENT PROGRAMS" published by the U.S. General Services Administration Office of Acquisition Policy. The requested transaction is void if the vendor has been debarred, suspended, proposed for debarment or otherwise ineligible for the award of contracts by any federal agency.

_____ Vendor	_____ Telephone
_____ Prepared By	_____ Street Address
_____ Position	_____ City, State Zip Code
_____ Date	_____ Email

Vendor Authorized Signature

RESPONSE SPREADSHEET MUST BE INCLUDED WITH ALL SUBMISSIONS

Appendix C - Evaluation Rubric

1. Cost of eligible service, equipment and/or maintenance.....40 points

Cost of service will be released at time of bid opening. Points will be awarded during the evaluation of the proposal(s).

2. Capacity of Vendor.....10 points

Capacity of vendor to provide solution, including but not limited to:

- (a) Does the vendor already have positive relationships with other educational entities?
- (b) Can the vendor show history that they have solutions deployed at or above the scale that is being requested?
- (c) Has the vendor successfully met product delivery timelines for other similar projects?

3. Features.....10 points

All documented features/requirements in the RFP will be evaluated and points awarded as such. Points will not be awarded for features that are not included in the cost of the product as presented in the RFP.

4. Support.....10 points

Technical support will be evaluated on responsiveness, past experiences, ease of use, communication and how access to engineering level support is routed. Support may be contacted to assist in the evaluation of its capabilities.

5. Project Management.....10 points

The vendor's experience and history in project management will be evaluated, and points awarded on the ability and history of the vendor's capacity to successfully complete projects of this size and scope.

6. Reliability.....10 points

Reliability score will be determined using the following criteria:

- (a) References given in the RFP and subcontractor qualifications
- (b) Known other vendor customers
- (c) Past District experiences

7. References.....10 points

References will be contacted, and points awarded on their responses.

Appendix D - References & Subcontractors

References

Please provide a minimum of three references with responses.

Organization	Contact Name	Phone	Email

Subcontractors

All subcontractors must be approved by Papillion La Vista Community Schools. If you intend to use any subcontractors, identify them here.

Subcontractor	Contact Name	Phone	Email

Appendix E – Terms and Conditions

Vendor responses are not required to include Appendix E. However, any selected vendor(s) will be required to fill out Appendix E to enter into an agreement with PLCS. This is a copy included for informational purposes.

AGREEMENT TO INCORPORATE RFP TERMS AND CONDITIONS for PLCS 2023 WAN RFP.

This agreement is between PAPILLION LA VISTA COMMUNITY SCHOOLS and _____ (herein called the Vendor).

1. Agreements

Vendor agrees to furnish all labor, materials, tools, equipment, services, transportation, supervision and miscellaneous expense required to install, setup, configure, test, repair and maintain the service as well as agrees to all Terms and Conditions contained within this RFP as prepared by the Papillion La Vista Community Schools, dated January 25, 2023. These terms and conditions were made fully available throughout the RFP process and prior to the submission deadline. Services will be provided under the following conditions:

- A. All terms, conditions and requirements of the final Request for Proposal document will be incorporated and attached to any final contract or agreement between the Vendor and Papillion La Vista Community Schools.
- B. The contract between PLCS and the successful proposer shall consist of a purchase order, special terms and conditions outlined within this document and a copy of the contractor's proposal responses.
- C. The terms and conditions contained within the original RFP will always supersede any future contractual or agreement language.
- D. PLCS reserves the right to add or remove documents to the contract.
- E. Any discrepancies, deviations or conflicts between any agreements will always be settled by the original terms, conditions and requirements set forth by Papillion La Vista Community Schools in its RFP documentation. The intent of this is to ensure the basic nature of the original RFP and its mandatory requirements are met.
- F. Any deviations from the RFP that were clearly defined by the Vendor in its proposal, if accepted by the District, will become part of the agreement.
- G. This agreement will be in effect for the duration of any potential lease or purchase term length.

Authorized Vendor Signature

SIGNED: _____ DATE: _____

PRINTED NAME: _____

Authorized Papillion La Vista Community Schools Signature

SIGNED: _____ DATE: _____

PRINTED NAME: _____

Appendix F - Demarcation Points

Appendix F.a - Demarcation Points in Base Bid

Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
AG	78451	Elementary School	Anderson Grove Elementary School	11820 S. 37th Street Bellevue, NE 68123	41.132007401089425, -95.96984804568697
AB	17022775	Elementary School	Ashbury Elementary School	11740 S. 120th Street Papillion, NE 68046	41.134420087341496, -96.10168888951792
BE	16051506	Elementary School	Bell Elementary School	7909 Reed Street Papillion, NE 68046	41.122973365131024, -96.03432051777637
CH	78300	Elementary School	Carriage Hill Elementary School	400 Cedardale Road Papillion, NE 68046	41.14321618337804, -96.03781258120335
GSH	78477	Elementary School	G. Stanley Hall Elementary School	7600 S. 72nd Street La Vista, NE 68128	41.18409350756713, -96.02321787472631
GH	78453	Elementary School	Golden Hills Elementary School	2912 Coffey Avenue Bellevue, NE 68123	41.133610050795156, -95.95650694192838
HH	78301	Elementary School	Hickory Hill Elementary School	1307 Rogers Drive Papillion, NE 68046	41.17532620902165, -96.02949232456575
LW	78480	Elementary School	La Vista West Elementary School	7821 Terry Drive La Vista, NE 68046	41.186673114198925, -96.0370509927952
PH	78479	Elementary School	Parkview Heights Elementary School	7609 S. 89th Street La Vista, NE 68128	41.18271842175697, -96.0502386115226

Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
PA	16051505	Elementary School	Patriot Elementary School	1701 Hardwood Drive Papillion, NE 68046	41.12665046355355, -96.06814111929648
PE	231979	Elementary School	Portal Elementary School	9920 Brentwood Drive La Vista, NE 68128	41.181587819032835, -96.06815642182477
PQ	17015732	Elementary School	Prairie Queen Elementary School	10520 S. 123rd Avenue Papillion, NE 68046	41.15547399491211, -96.10665223637885
RS	78501	Elementary School	Rumsey Station Elementary School	110 Eagle Ridge Drive Papillion, NE 68133	41.15574040390412, -96.01181505310488
TH	78295	Elementary School	Tara Heights Elementary School	700 Tara Road Papillion, NE 68046	41.16326483428841, -96.03675654372513
TP	78297	Elementary School	Trumble Park Elementary School	500 Valley Road Papillion, NE 68046	41.14608080830305, -96.0492435381094
WC	208256	Elementary School	Walnut Creek Elementary School	720 Fenwick Street Papillion, NE 68046	41.137270023195235, -96.05139915558797
LVMS	78478	Middle School	La Vista Middle School	7900 Edgewood Blvd. La Vista, NE 68128	41.177996789286524, -96.03844604810594
LMS	17004030	Middle School	Liberty Middle School	10820 Wittmus Drive Papillion, NE 68046	41.15160331544086, -96.07739819012438
IDEAL	78298	High School	IDEAL School	1104 Applewood Drive Papillion, NE 68046	41.14217195173089, -96.02531731519247

Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
PLHS	78294	High School	Papillion La Vista High School	402 Centennial Road Papillion, NE 68046	41.17086766092041, -96.04012039850143
PLSHS	231978	High School	Papillion La Vista South High School	10799 Highway 370 Papillion, NE 68046	41.14514240929666, -96.07955238592606
BG	138271	Support	Buildings & Grounds and Warehouse	8130 Giles Road La Vista, NE 68128	41.1771447378826, -96.04033388143097
ESU3	N/A	Datacenter	Educational Service Unit #3	6949 S 110th Street La Vista, NE 68128	41.188667182718675, -96.08722249464678
DTC	N/A	Datacenter	PLCS District Technology Center	243 W Grant Street Papillion, NE 68046	41.153394631146796, -96.04466070961732
NEHALL	N/A	Datacenter	Nebraska Hall	901 N 17th Street Lincoln, NE 68508	40.82320747389223, -96.69758849717788

Appendix F.b - Demarcation Points as Optional Additions

Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
PLECC	Not E-Rate Eligible	Elementary School	Papillion La Vista Early Childhood Center	1211 N Monroe Street Papillion, NE 68046	41.17358019201916, -96.03983444298923
HAL	TBD	Support	High Ability Learning Center	105 W. Sherman Street Papillion, NE 68046	41.152401040063936, -96.04332478596643

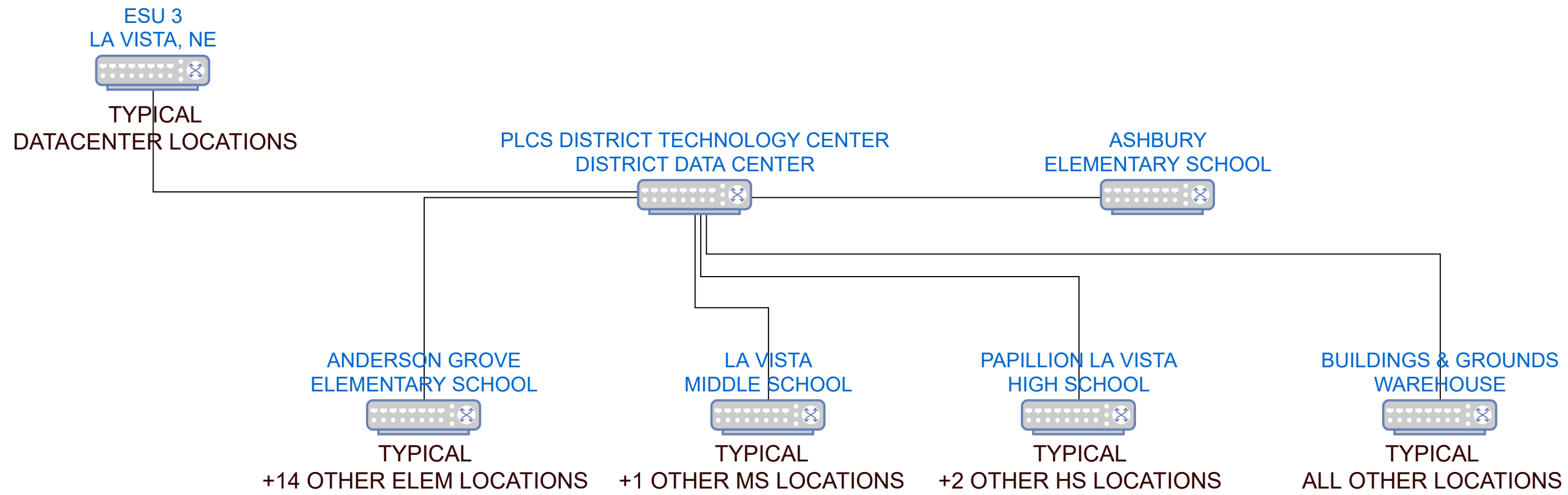
Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
HA	TBD	Support	Health Academy	Midlands Two Medical Office Building 401 East Gold Coast Road, Suite 103 Papillion, NE 68046	41.1360436196415, -96.03906991043269
LVCP	Not E-Rate Eligible	Support	La Vista City Park	7629 Josephine Street La Vista, NE 68128	41.18735014547733, -96.03312481477495
PAPFF	Not E-Rate Eligible	Support	Papillion Fricke Field	500 E. Halleck Street Papillion, NE 68046	41.15114877227345, -96.03806982928388

Appendix F.c - Demarcation Points as Possible Future Contract Additions

Location Code	BEN	Location Type	Location Name	Location Address	GPS Coordinates
HS3	TBD	High School	Future High School Site	East of south 72nd street across from Reed St. Part of Tax Lot 4, except road ROW in Section 1-T13N-R12E.	41.12393292092323, -96.01994225375242
EL17	TBD	Elementary School	Future Elementary School Site	Near the southwest corner of the intersection of 99th Street and W. Lincoln Road	41.15382292376474, -96.06771489519028

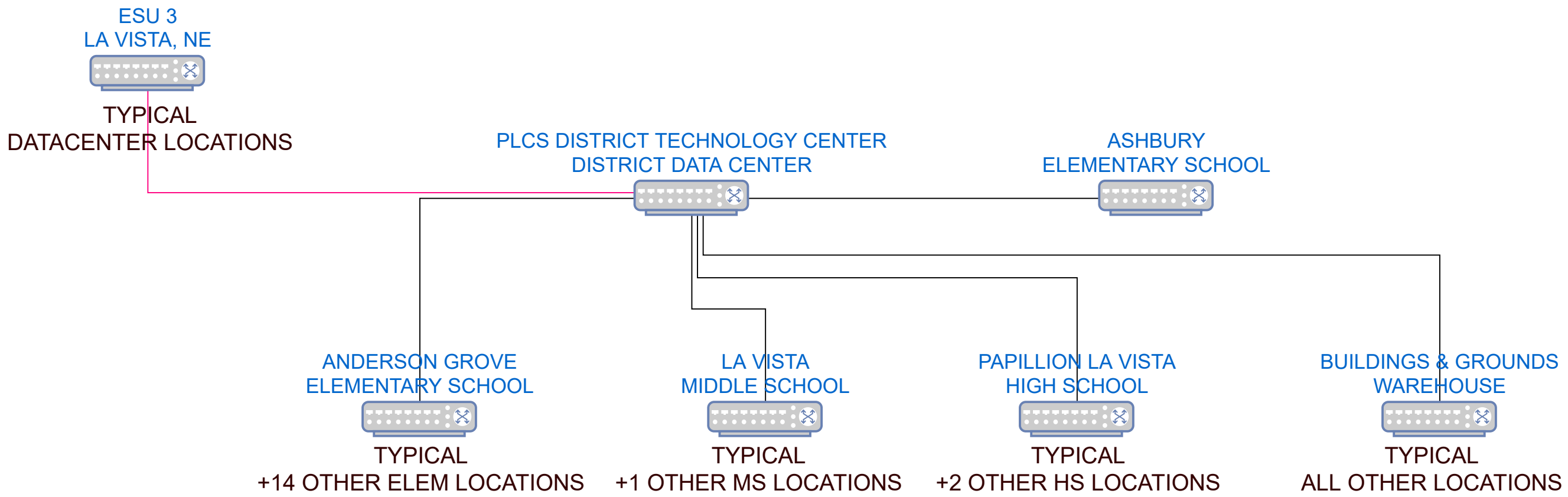
Appendix G - WAN Design Documents

Design documents to follow on subsequent pages.



LEGEND	
Line Type	Description
————	Minimum 6 Strand Single Mode Fiber

THIS PAGE CONTAINS COLOR

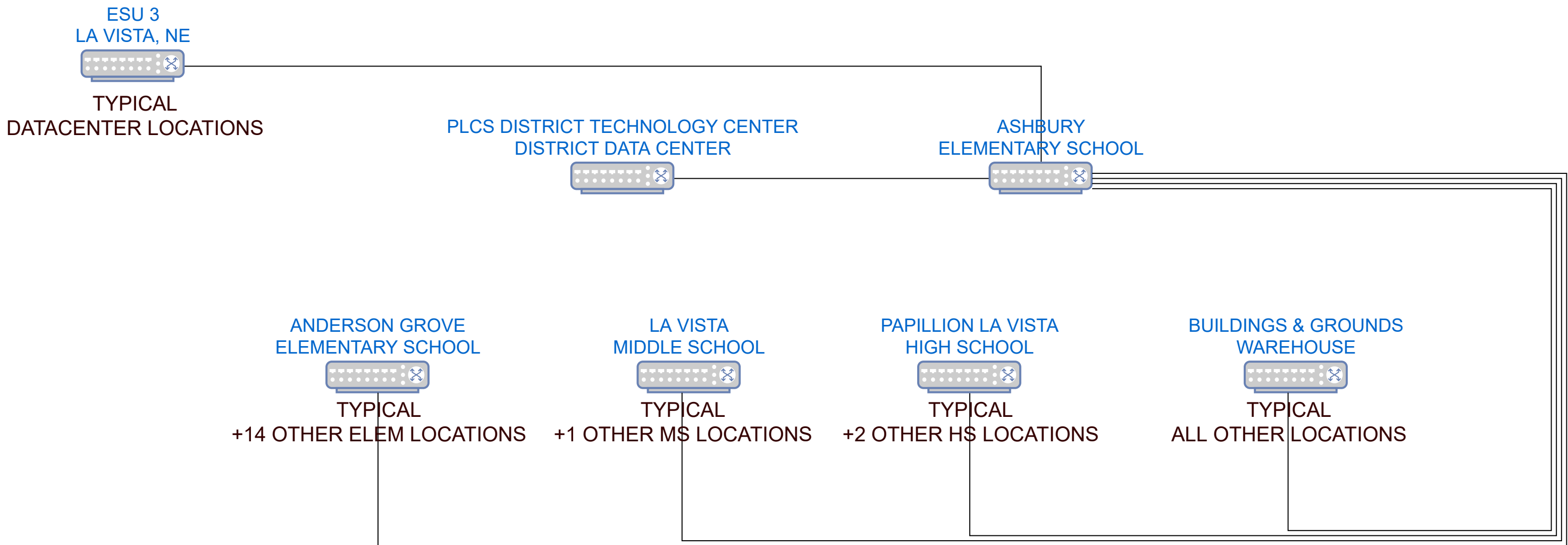


LEGEND	
Line Type	Description
—	Minimum 2x 10 Gbps Circuit
—	40 Gbps Circuit

THIS PAGE CONTAINS COLOR

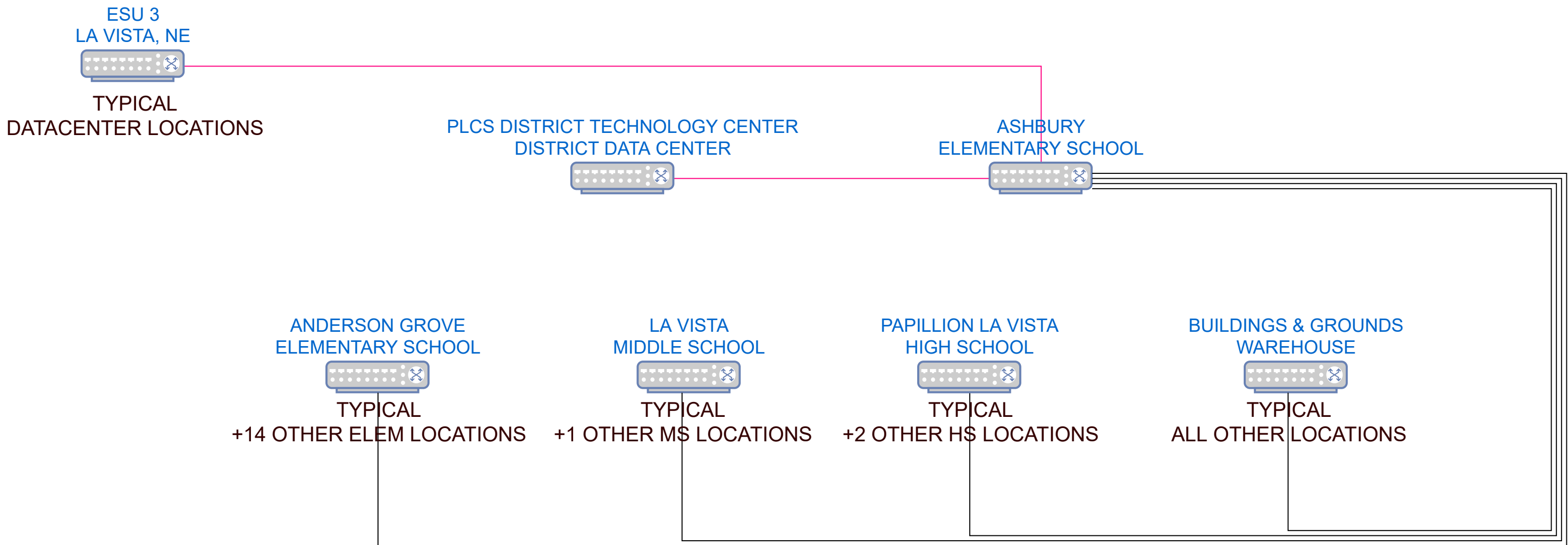
**PAPILLION LA VISTA COMMUNITY SCHOOLS
WAN DESIGN OPTION A2 - CURRENT LAYOUT - LIT OPTION**

ORIGINAL 2023-01-25



LEGEND	
Line Type	Description
————	Minimum 6 Strand Single Mode Fiber

THIS PAGE CONTAINS COLOR



LEGEND	
Line Type	Description
	Minimum 2x 10 Gbps Circuit
	40 Gbps Circuit

THIS PAGE CONTAINS COLOR



ASHBURY ELEMENTARY SCHOOL, PAPIILLION, NE



NEBRASKA HALL - LINCOLN, NE



LEGEND	
Line Type	Description
—————	Minimum 2 up to 4 Strand Single Mode Fiber

THIS PAGE CONTAINS COLOR

**PAPIILLION LA VISTA COMMUNITY SCHOOLS
WAN DESIGN OPTION C1 - PAPIILLION TO LINCOLN - DARK OPTION**

ORIGINAL 2023-01-25




ASHBURY ELEMENTARY SCHOOL, PAPIILLION, NE



NEBRASKA HALL - LINCOLN, NE



LEGEND	
Line Type	Description
	Minimum 40 Gbps Connection, Optional 100 Gbps Circuit

THIS PAGE CONTAINS COLOR

**PAPIILLION LA VISTA COMMUNITY SCHOOLS
WAN DESIGN OPTION C2 - PAPIILLION TO LINCOLN - LIT OPTION**

ORIGINAL 2023-01-25