

**RFP #110-25**  
**Executive Summary**

**Overview**

In this RFP, KPBSD seeks telecommunications services connecting several schools to the broader KPBSD Wide Area Network (WAN).

KPBSD leverages centralized data services (such as application hosting, file services, internet filtering and connectivity) out of our primary datacenter housed in the District Office facility at 148 N. Binkley Street in Soldotna, Alaska. As such, we endeavor to connect school facilities via varying WAN connectivity into our District Office facility to provide these network services and internet connectivity to school locations.

We have long-standing relationships with several telecommunications providers utilizing varying technologies available for specific regions in accomplishing this goal. The result of this is a complex network with multiple interconnects to various providers over a range of technologies such as traditional Ethernet WAN technologies, microwave services, fiber-optic or fixed-wireless connectivity.

Only one solution for each facility will be awarded in Part 1. Awards are determined by cost analysis and rubric scoring as described in Section R of the RFP Instructions to Bidders.

This RFP consists of two primary parts. Each part is summarized below.

**Part 1**

In Part 1 of this RFP, KPBSD seeks proposals for WAN connectivity to school locations where we seek solutions for provider-owned and managed infrastructure.

**Part 2**

In Part 2, KPBSD seeks proposals for internet service (with bundled transport) delivered to the District Office building at 148 N. Binkley Street, Soldotna, Alaska 99669.

**This Specification Sheet must be returned with RFP# 110-25**

**RFP – Part 1: Data Services**

These are services presently provided by Alaska Communications, GCI, and Fastwyre.

Any vendor may bid on any or all services. Enter cost in **Cost per Unit** column. If there is also a non-recurring cost, such as installation charges, enter the non-recurring charges in the **Non-Recurring** column on the same row.

This is the basis for our E-Rate application. Please include all costs KPBSD will be asked to pay. If you don't include it, I won't know to ask for it, and if I don't ask for it, we won't get it subsidized!

**Company Name** \_\_\_\_\_

Row A	<b>Project Scope (See Instructions Below)</b>				
	Qty	Product or Service Description	Cost per Unit	Non-recurring cost(s)	Enter N in cell if NOT eligible for E-Rate subsidy
Row B		<b>General Instructions – Standard Sites</b>			
B1	1	#03 Susan B. English School	Attach Pricing – See <b>Row B</b> Instructions		
B2	1	#10 Nikiski Middle/High School	Attach Pricing – See <b>Row B</b> Instructions		
B3	1	#15 Marathon School	Attach Pricing – See <b>Row B</b> Instructions		
B4	1	#33 Paul Banks Elementary	Attach Pricing – See <b>Row B</b> Instructions		
B5	1	#35 Hope School	Attach Pricing – See <b>Row B</b> Instructions		
B6	1	#44 Sterling Elementary	Attach Pricing – See <b>Row B</b> Instructions		
B7	1	#48 K-Beach Elementary	Attach Pricing – See <b>Row B</b> Instructions		
B8	1	#52 Nikiski North Star Elementary	Attach Pricing – See <b>Row B</b> Instructions		
B9	1	#66 Homer Flex School	Attach Pricing – See <b>Row B</b> Instructions		
B10	1	#67 Kenai Alternative	Attach Pricing – See <b>Row B</b> Instructions		
B11	1	#TBD Tulen Charter School	Attach Pricing – See <b>Row B</b> Instructions		
Row C		<b>General Instructions – Tebughna</b>			
C1	1	#01 Tebughna School	Attach Pricing – See <b>Row C</b> Instructions		
Row D		<b>General Instructions – Seward Middle</b>			
D1	1	#14 Seward Middle	Attach Pricing – See <b>Row E</b> Instructions		
Row E		<b>General Instructions – Hub Aggregation</b>	Attach Pricing – See <b>Row D</b> instructions		
Row F		<b>General instructions – co-located sites</b>			
		#65 Aurora Borealis Charter (Kenai Alternative)	Not applicable (co-located site)		
		#80 Connections (Seward Middle)	Not applicable (co-located site)		
Row I		<b>Enter Contract Term for this specification sheet and attached pricing</b>			

Instructions	
Row A	Project Scope
A1	<p>KPBSD seeks to improve a portion of our existing WAN infrastructure by soliciting proposals for leased lit-fiber transport or non-fiber high-bandwidth terrestrial transport. Proposals under this section should be for provider-managed WAN transport services over provider infrastructure.</p> <p>Providers are welcome to submit proposals for one or more data transport services requested. Recognizing that holistic solutions covering a majority of facilities may be more operationally cost-efficient than managing multiple different solutions across varying providers, comprehensiveness of solution may be considered as a partial aspect of "Value" and "Implementation Cost to District" evaluation matrix categories. However, we recognize that we cover a diverse geographical area with varying levels of infrastructure and encourage any provider to propose solutions that meet some or all service needs.</p>
A2	Responses to this section (Part 1) will be evaluated as described in Section R, subparts 3a-3g in the RFP Instructions to Bidders.
A3	<p>All service proposals <b>MUST</b> include provisions for end-to-end connectivity from the school facility to one of three hub sites noted below, inclusive of all charges (LEC, taxes, or otherwise):</p> <p>District Office, 148 N. Binkley Street, Soldotna, AK 99669  Homer High School, 600 E. Fairview Ave., Homer, AK 99603  Seward Middle School, 304 Sea Lion Ave., Seward, AK 99669</p> <p>Seward area schools should generally terminate at the hub aggregation facility at Seward Middle. KPBSD would prefer all other hub aggregations to terminate at District Office unless it is more cost-effective to terminate at Homer High. If multiple hub aggregations options are available, include proposals for each option available.</p>
A4	<p><b>Sites in Row B, Row C, and Row D</b> each have their own specific bandwidth tiers requested.</p> <p>KPBSD is seeking proposals for <b>low-latency, high-bandwidth terrestrial solutions ("leased lit-fiber" or non-fiber terrestrial transport, such as microwave or fixed-wireless)</b> to meet present and future wide-area-network demand. Non-terrestrial solutions (e.g. satellite) will not be considered. Ability for technology to support future bandwidth growth is important and may be considered under the "Value" evaluation matrix category.</p> <p>Ideally, we prefer solutions that utilize MPLS/"Metro Ethernet" or comparable technologies that provide a full-mesh network between connected sites but will consider more traditional point-to-point circuit design.</p> <p>If you are unable to exactly match bandwidth tiers requested due to regulatory restrictions, technological limitations, or established service pricing structure, provide bandwidth tiers and pricing that most closely matches the requested tiers. In comparing service costs under the "Lowest cost per service proposed" scoring item (see Section R in RFP Instructions to Bidders), KPBSD will utilize "cost-per-Mbps" comparisons at pricing tiers closest to those requested.</p> <p>Unless otherwise noted, all bandwidth levels requested are synchronous, with the same bandwidth required upstream and downstream.</p>
A5	<p>Proposals must include Monthly Recurring Costs (MRC) and any applicable Non-Recurring Costs (NRC) for <b>each requested bandwidth tier</b>.</p> <p>For each price group (MRC, NRC), <b>ineligible service fees or taxes must be identified and separated from eligible service costs</b>.</p> <p>I am not providing space on the spec sheet above to indicate the various pricing levels. Please specify contract term on specification sheet above and attach pricing sheet(s) in your proposal. Pricing sheets should clearly indicate the technology proposed (e.g. fiber, microwave, copper, etc.), Monthly Recurring Costs</p>

	<p>(MRC), and Non-Recurring Costs (NRC) per location and bandwidth level. NRC are those costs charged by provider to implement and prepare service for delivery.</p> <p>Please be thorough and include all costs KPBSD would be expected to pay.</p>
A6	<p><b>If your proposal includes special construction (e.g. no existing facilities exist to bring lit-fiber or comparable terrestrial service), I would like to see two separate options for service:</b></p> <p>a) <b>a lit-fiber or comparable terrestrial proposal</b> with pricing at requested service levels including all MRC, one-time NRC (installation fees, etc.), and special construction detail and pricing, and,</p> <p>b) <b>pricing at service level capable of delivery over existing infrastructure</b> (e.g. your best possible service delivery without special construction cost). Match as closely as possible the requested service levels and bandwidth increments for the given site (see specific row instructions for bandwidth requested), up to either the maximum requested speed or the technological limits of your infrastructure/service. Be sure to include MRC, one-time NRC (installation fees, etc.).</p> <p>Recognizing that special construction may require significant upfront cost (our “non-discounted” share), I would like alternate options to provide transport over existing infrastructure in the event special construction is determined to be too costly. All responsive proposals including lit-fiber or comparable terrestrial service at the requested service levels, with or without special construction, will be compared and evaluated based on bid criteria. If KPBSD determines, in KPBSD’s sole discretion, that special construction is cost-prohibitive, we will then compare non-special construction proposals at comparable service levels (“option ‘b’ proposals”).</p> <p>If you cannot supply an alternate proposals (e.g. you have no infrastructure available and special construction is required), just supply your special construction proposal (“option a”), without including an “option b” proposal, and indicate that no “option b” proposal is available.</p>
A7	<p>Unless otherwise noted or approved, all services should be delivered via a standard RJ-45 Ethernet cable or single-mode fiber-optic cable. LC connectors are preferred, but SC connectors are acceptable.</p>
A8	<p>School architectural drawings are available for review in the KPBSD Purchasing Office at 139 E. Park Avenue in Soldotna. Contact Colton Hayes <a href="mailto:chayes2@kpbsd.k12.ak.us">chayes2@kpbsd.k12.ak.us</a>.</p>
A9	<p>Services proposed must include a Service Level Agreement (SLA). SLA should outline items such as network availability/uptime metrics, trouble reporting, response time, escalation and resolution procedures, as well as include remedies available to customer if service performance falls below SLA levels.</p>
Row B	<p><b>Row B</b> represents the majority of individual school sites in this RFP, with bandwidth needs at or exceeding 100Mbps.</p> <p>I am requesting pricing for <b>100Mbps to 2Gbps service in the following increments (100, 200, 300, 400, 500, 1000, 1500, 2000) for sites in B1 through B11.</b> Be sure to <b>include any applicable one-time non-recurring costs (NRC) required to activate service.</b></p> <p>Be sure to review the hub aggregation requirements discussed in <b>Row E.</b></p> <p>If existing infrastructure limits service at the requested bandwidth levels, see instructions in <b>Row A6</b> and provide either special construction costs, as well as pricing at the best-available level of service without special construction (if possible).</p>
B1	<p>Susan B. English School is located at 365 Winifred Avenue, Seldovia, AK 99663. Approximate GPS coordinates are 59.442236,-151.713633. Existing service is delivered over provider-owned copper entrance at a current rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.</p>
B2	<p>Nikiski Middle/High School is located at 52275 Education Drive, Nikiski, AK 99635. Approximate GPS coordinates are 60.734319,-151.298553. Existing service is delivered over provider-owned fiber-optic</p>

	entrance at a rate of 200Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B3	Marathon School is located at 405 Marathon Road, Kenai, AK 99611. Approximate GPS coordinates are 60.566831,-151.235052. Existing service is delivered over provider-owned copper entrance at a rate of 20Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B4	Paul Banks Elementary is located at 1340 East End Road, Homer, AK 99603. Approximate GPS coordinates are 59.652443,-151.505917. Existing service is delivered over provider-owned fiber-optic entrance at a rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B5	Hope School is located at 19635 Hope Highway, Hope, AK 99605. Approximate GPS coordinates are 60.917952,-149.621993. Existing service is delivered over provider-owned fiber entrance at a current rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B6	Sterling Elementary is located at 35096 Sterling Highway, Sterling, AK 99672. Approximate GPS coordinates are 60.537119,-150.797176. Existing service is delivered over provider-owned fiber at a rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B7	K-Beach Elementary School is located at 1049 East Poppy Lane, Soldotna, AK 99669. Approximate GPS coordinates are 60.486708,-151.141092. Existing service is delivered over provider-owned fiber-optic entrance at a rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B8	Nikiski North Star Elementary School is located at 45600 Holt Lamplight Road, Nikiski, AK 99611. Approximate GPS coordinates are 60.65997,-151.293671. Existing service is delivered over provider-owned fiber-optic at a current rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B9	Homer Flex School is located at 4122 Ben Walters Lane, Homer, AK 99603. Approximate GPS coordinates are 59.649731,-151.519299. Existing service is delivered over provider-owned fiber-optic entrance at a current rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.
B10	Kenai Alternative is located at 705 Frontage Road, Suite C, Kenai, AK 99611. Approximate GPS coordinates are 60.554153,-151.254393. Existing service is delivered over provider-owned fiber-optic entrance at a current rate of 100Mbps with traffic aggregation occurring at our Soldotna District Office data center WAN hub.  Note: Aurora Borealis Charter is co-located in this facility. KPBSD only requires (1) circuit delivered to this building.
B11	TuĽen Charter School is a new charter school approved by the KPBSD Board of Education on November 18, 2024, scheduled to open in fall 2025. The school facility will be housed within the Kahtnuht'ana Dehdeldiht Campus, located at 12271 Kenai Spur Highway, Kenai, AK 99611. Approximate GPS coordinates are 60.559119,-151.279071.
Row C	<b>Row C</b> includes sites with bandwidth requirements approaching 100Mbps. I am requesting pricing for <b>15Mbps, 25Mbps, 50Mbps, 100Mbps, and 150Mbps</b> for all sites in <b>Row C</b> . Be sure to review the hub aggregation requirements discussed in <b>Row E</b> .
C1	Tebughna School is located at 46400 D. Street, Tyonek, AK 99682. Approximate GPS coordinates are 61.068081,-151.143541. Existing service is delivered over provider-owned fiber-optic entrance at a current rate of 15Mbps. This link presently utilizes microwave middle-mile infrastructure.
Row D	Presently, we have a 150Mbps circuit connecting Seward Middle School in Seward to District Office in Soldotna. Seward Middle School serves as a hub-aggregation facility in the Seward area, connecting Seward

	<p>High School, Seward Elementary School, and Moose Pass through a combination of private and provider-based connectivity.</p> <p>For network traffic management purposes, we would prefer that this circuit be delivered to each endpoint as a standalone circuit (e.g. traffic for this circuit is not bundled with other hub-aggregation traffic landing at either Seward Middle or District Office). However, this is not an absolute requirement.</p> <p>For the Seward Middle to District Office circuit, I am requesting pricing for the following bandwidth tiers: <b>100Mbps, 150Mbps, 200Mbps, 300Mbps, 400Mbps, 500Mbps, 750Mbps, 1.0Gbps.</b></p>
D1	<p>Seward Middle School is located at 304 Sea Lion Avenue, Seward, AK 99664. Approximate GPS coordinates are 60.131788,-149.441988. Existing service is delivered over provider-owned fiber entrance at a current rate of 150Mbps. Be sure to include the matching circuit to District Office at 148 N. Binkley Street, Soldotna, AK 99669 to ingress/egress traffic to/from Seward Middle.</p>
Row E	<p>All services proposals in <b>Row B, Row C, and Row D</b> must include end-to-end connectivity to one of three hub sites noted in <b>Row A3</b> instructions above (District Office, Homer High, or Seward Middle).</p> <p>If your proposal includes only a single facility terminating across a hub aggregation link, I would request pricing for bandwidth tiers matching the school circuit (based on the corresponding <b>Row B, Row C, or Row D</b> bandwidth tiers requested). In other words, make sure the bandwidth tiers for this hub aggregation circuit connecting a single site matches the bandwidth tiers for that site. This may also apply if the technology serving the facility does not support multiple connections across a single hub facility (Tebughna and Hope are presently in this situation and each terminate to the hub on separate circuits, rather than landing as a trunked interface with multiple virtual circuits).</p> <p>If your proposal includes multiple sites aggregating to a single hub aggregation circuit, provide pricing for the hub aggregation circuit at the following bandwidth tiers: <b>100Mbps, 200Mbps, 300Mbps, 400Mbps, 500Mbps, 750Mbps, 1.0Gbps, 1.5Gbps, 2.0Gbps, 2.5Gbps, and 3.0Gbps.</b></p>
Row F	<p>Sites in <b>Row G</b> are not receiving services directly. These are schools co-located in the same building as other schools; e.g. Charter schools co-located in neighborhood schools, or similar. There are no present plans for any of these schools to move into their own buildings, but I am advertising for services in the off chance they do. You do not need to provide pricing for schools in <b>Row F</b>. I will assume tariff pricing should I need it.</p>
Row G	<p>I will consider a 1, 3, 3+1+1, or 5-year contract. In the case of the 3+1+1, this arrangement includes a base 3-year term with two optional 1-year extensions with mutual agreement. If submitting for multiple contract durations, submit separate specification sheets for each contract duration and label accordingly. See Section U in RFP Instructions to Bidders.</p>

**This Specification Sheet must be returned with RFP# 110-25**

**RFP – Part 2: Internet Services, Districtwide**

These are services presently provided by Alaska Communications.

Any vendor may bid on any or all services. Enter cost in **Cost per Unit** column. If there is also a non-recurring cost, such as installation charges, enter the non-recurring charges in the **Non-Recurring** column on the same row.

This is the basis for our E-Rate application. Please include all costs KPBSD will be asked to pay. If you don't include it, I won't know to ask for it, and if I don't ask for it, we won't get it subsidized!

**Company Name** \_\_\_\_\_

Row A	<b>Project Scope (See Instructions Below)</b>			
	Qty	Product or Service Description	Cost per Unit	Non-recurring cost(s)
Row B	1	<b>General Instructions – Internet Services</b>		
B1		1.50 Gbps (minimum)		
B2		2.00 Gbps		
B3		2.50 Gbps		
B4		3.00 Gbps		
B5		4.00 Gbps		
B6		4.50 Gbps		
B7		5.00 Gbps		
Row C	<b>Enter Contract Term for this specification sheet and attached pricing</b>			

<b>Instructions</b>	
Row A	Project Scope
A1	KPBSD seeks proposals for basic internet access (including bundled transport) with no value-add services. This circuit provides internet connectivity
A2	Responses to this section (Part 2) will be evaluated as described in Section R, subparts 3a-3g in the RFP Instructions to Bidders.
A3	KPBSD maintains our own IP address space (Autonomous System Number and /22 CIDR block) registered through ARIN. Provider must be able to accept BGP advertisement of this ASN/CIDR block from our equipment.  We presently advertise the entire /22 in one advertisement, but reserve the right to carve that space into multiple advertisements as necessary (for instance, to accommodate an alternate regional ISP connection).
A4	We expect that service (e.g. the demarcation handoff) is provided using public, non-KPBSD, IPv4 space. In other words, we require the provider-facing interface(s) on our edge equipment be addressed in your IPv4 space to allow for the potential for multi-homed configurations. Although we are not currently multi-homed, we require flexibility to seamlessly migrate providers if changing from one internet service provider to another.  Presently, this handoff to us is accomplished via a /30 public IPv4 netblock.

A5	KPBSD desires a defined level of support and service that is exclusively directed to the corporate/mission critical user. Furthermore, we require full measurement of service – no oversubscribing bandwidth.
A6	Services proposed must include a Service Level Agreement (SLA). SLA should outline items such as network availability/uptime metric, trouble reporting, response time, escalation and resolution procedures, as well as include remedies available to customer if service performance falls below established SLA benchmarks.
A7	Unless otherwise noted or approved, all services should be delivered via a standard RJ-45 Ethernet cable or single-mode OS1 or OS2 fiber-optic cable. LC connectors are preferred, but SC connectors are acceptable.
A8	School architectural drawings are available for review in the KPBSD Purchasing Office at 139 E. Park Avenue in Soldotna. Contact Colton Hayes <a href="mailto:chayes2@kpbsd.k12.ak.us">chayes2@kpbsd.k12.ak.us</a> .
A9	Internet service provided over satellite will not be considered.
A10	If the solution requires premise gateway hardware, provider maintains ownership, management, and maintenance responsibilities of said hardware. KPBSD will supply adequate wiring closet/rack space and power.
Row B	<p>At the time of our Form 470 filing, we presently maintain 1.5 Gbps of internet service in Soldotna provided by ACS.</p> <p>Proposal costs must include delivery (transport) to the District Office at 148 N. Binkley Street in Soldotna, AK 99669. In other words, the underlying data circuit costs should be built into the internet bandwidth price tiers proposed.</p> <p>We seek proposals for synchronous bandwidth, with the same bandwidth available in both the upstream and downstream directions.</p>
B1-B7	Enter pricing for the appropriate bandwidth tier in the <b>Cost per Unit</b> column. Enter installation charges in the <b>Non-Recurring</b> column.
Row C	I will consider a 1, 3, 3+1+1, or 5-year contract. In the case of the 3+1+1, this arrangement includes a base 3-year term with two optional 1-year extensions with mutual agreement. If submitting for multiple contract durations, submit separate specification sheets for each contract duration and label accordingly. See Section U in RFP Instructions to Bidders.