



# Request for Proposal (RFP) Approvals at the April 2017 Board of Trustee Meeting

To support the growth of the district, the expansion of facilities, and the goals of the 2014 Bond Technology program, four Request for Proposals (RFP) were issued. Technology Services has spent months assessing options, reviewing proposed designs, and selecting qualified service providers and strategic partners. The following is a summary of the RFPs proposed for approval at the April 2017 Board of Trustee meeting.

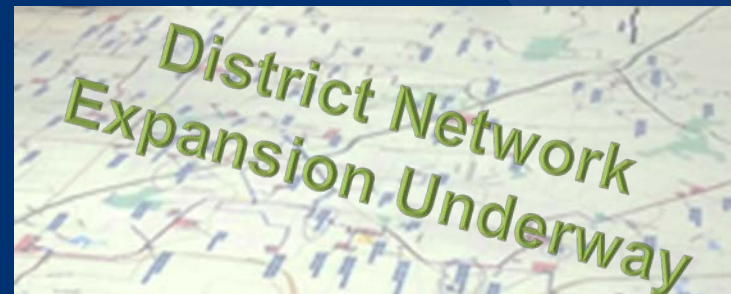
## RFP Awards Scheduled for the April 2017 Board Meeting

	<b>Bid Name</b>	<b>RFP #</b>	<b>Post BID</b>	<b>BID Opening</b>	<b>Evaluate Bids</b>	<b>Board Approval</b>
<b>6.A.10</b>	Technology Construction Renovation Upgrades	17-01-5079RFP	Wednesday 11/30/16	Thursday 2/9/2017	Feb 10-Feb 16	10-Apr-17
<b>6.A.5</b>	Internet and Related Services	16-11-5047RFP	Wednesday 12/13/16	Thursday 12/15/2016	Dec 16-Mar 28	10-Apr-17
<b>6.A.6</b>	Internet Gateway Router Switch	16-12-5049RFP	Friday 12/16/16	Thursday 1/5/2017	Jan 6- Mar 28	10-Apr-17
<b>6.A.1</b>	Dark, lit or self-provisioned fiber	17-01-5080RFP	Tuesday 01/24/17	Thursday 3/14/2017	March 15- March 28	10-Apr-17



# Approval Proposed for the April 2017 Board Meeting RFP 17-01-5080 Dark, Lit or Self-Provisioned Fiber

Analysis for RFP 17-01-5080 was conducted and completed on **March 27, 2017**. This RFP required extensive detailed analysis due to the number of complex options. Frankie Jackson worked with Ed and Polly Gifford (EPS), Kim Bowlin, Oscar Villar, and Paula Ross to analyze the proposals and to prepare the final recommendation.

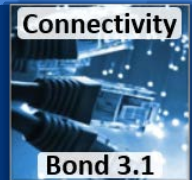


The purpose of the Lit, Dark or Self-Provisioned Fiber Networks Expansion RFP was to identify a vendor to provide the district with a fiber-based network infrastructure solution for the CFISD Wide Area Network for all campuses and facilities. The original contract for the district's fiber network was awarded to Phonoscope as a fifteen year contract in 2003. Over the course of the contract, the contract has been expanded through contract addendums to cover new facilities and network improvements. Additionally, Phonoscope has undergone significant growth and changes splitting up their company into Phonoscope Lightwave, which then became PS Lightwave in November 2016.

The original Phonoscope contract expires on June 30, 2018 and includes an option to extend up to five years. Due to the complexity of the district's network, ample time is needed to consider future growth and fiber design options. The intent of this RFP is to assess competitive options and innovative designs to be considered as the district expands and redundant network paths are needed.

## RFP Awards Scheduled for the April 2017 Board Meeting

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6.A.1 Dark, lit or self-provisioned fiber	17-01-5080RFP	Tuesday 01/24/17	Thursday 3/14/2017	March 15- March 28	28-Mar-17	10-Apr-17



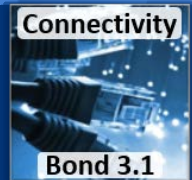
# Approval Proposed for the April 2017 Board Meeting

## RFP 17-01-5080 Dark, Lit or Self-Provisioned Fiber

Dark Fiber	Lit Fiber	Self-Provisioned Fiber
<p><b>DARK FIBER</b> Dark fiber refers to fiber optic cable for which the service provider has not provided modulating electronics, and that is not being used to transmit data. Leased dark fiber is a type of fiber service in which the applicant leases a portion of a provider owned and maintained fiber network, and separately pays to have that fiber lit in order to transmit information over that fiber. For the purposes of the E-rate program, the term "leased dark fiber"</p>	<p><b>LIT FIBER</b> Lit fiber refers to fiber optic cable for which the service provider provides modulating electronics to light the fiber. Leased lit fiber is a fiber-based broadband service where the service provider owns and manages the network, and the E-rate applicant pays a recurring fee to have data transported over the network.</p>	<p><b>SELF PROVISIONED NETWORK</b> Complete applicant ownership of a high-speed broadband network. The applicant hires a vendor to construct the network or a portion of the network, and thereafter owns and maintains that network or portion.</p>
<p><b>Advantages</b></p> <ul style="list-style-type: none"> <li>- More control over the network</li> <li>- The district can easily increase and control bandwidth through the district-owned network electronics</li> <li>- Service provider maintains fiber</li> </ul>	<p><b>Advantages</b></p> <ul style="list-style-type: none"> <li>- Provider monitors the links</li> </ul>	<p><b>Advantages</b></p> <ul style="list-style-type: none"> <li>- 100% control of the network</li> </ul>
<p><b>Disadvantages</b></p> <ul style="list-style-type: none"> <li>- District responsible for monitoring fiber links</li> <li>- We notify service provider if there is an issue and they dispatch maintenance</li> </ul>	<p><b>Disadvantages</b></p> <ul style="list-style-type: none"> <li>- More expensive</li> <li>- Less control of the overall network</li> </ul>	<p><b>Disadvantages</b></p> <ul style="list-style-type: none"> <li>- More expensive</li> <li>- Responsible for fiber construction</li> <li>- Responsible for fiber maintenance</li> </ul>

### RFP Awards Scheduled for the April 2017 Board Meeting

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6.A.1 Dark, lit or self-provisioned fiber	17-01-5080RFP	Tuesday 01/24/17	Thursday 3/14/2017	March 15- March 28	28-Mar-17	10-Apr-17



# Approval Proposed for the April 2017 Board Meeting RFP 16-11-5047 For Internet and Related Services

Analysis for RFP 16-11-5047 was conducted and completed on **March 27, 2017**. Frankie Jackson worked with Ed and Polly Gifford (EPS), Kim Bowlin, Oscar Villar, and Paula Ross to analyze the proposals and to prepare the final recommendation.

The purpose of the Internet and Related Services RFP was to identify a vendor that could provide the Cypress Fairbanks Independent School District (the District) with an Internet Service that had a Committed Information Rate (CIR) of eight (8) billions of bits per second, referred to as Gbps.

- Prior to the 2014 bond, the District had 1.2 Gbps. The District upgraded to 4 Gbps in 2014.
- Then in 2015, the district increased the bandwidth to 8 Gbps by expanding to the district's colocation facility, Cyrus One.
- In 2016, we have two 6 Gbps: one at ISC and the other at Cyrus One.



The Dedicated Internet Access Service will be provided to the CFISD Network Operation Center located at 10300 Jones Road, Houston, Texas 77065. This service will replace the District's current provider contract which will expire in June 2017. It is currently providing 6Gbps.

## RFP Awards Scheduled for the April 2017 Board Meeting

6.A.5	Bid Name	RFP #	Post BID	BID Opening	Evaluate Bids	Make Recommendation	Board Approval
	Internet and Related Services	16-11-5047RFP	Wednesday 12/13/16	Thursday 12/15/2016	Dec 16- Mar 28	27-Mar-17	10-Apr-17

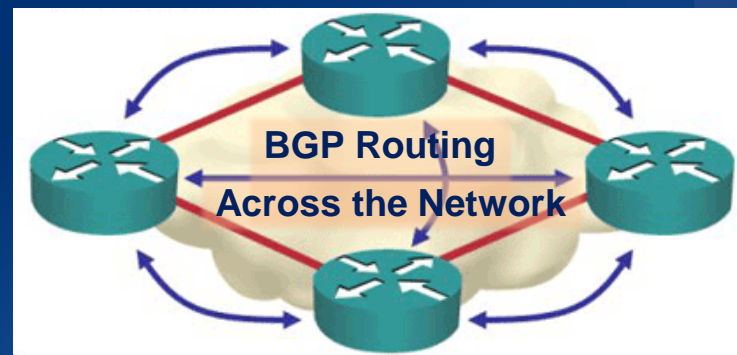
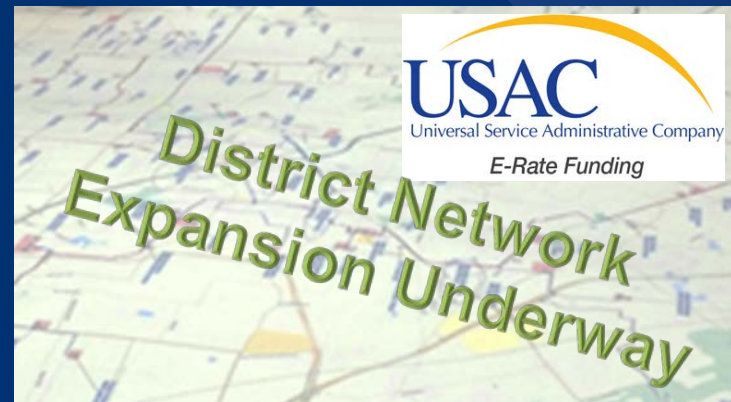
# Approval Proposed for the April 2017 Board Meeting

## RFP 16-12-5049 Internet Gateway Router Switch



On **March 20, 2017**, Frankie Jackson participated in a technical design review with Layer3, Ed and Polly Gifford (EPS), Kim Bowlin, Oscar Villar, and Paula Ross to analyze Layer3's proposed solution related to RFP 16-12-5949. This RFP is for a Internet Gateway Router Switch that will manage how packets are routed across the Internet through the a complex exchange system that distributes connectivity throughout the district's entire wide area network. This is done using Border Gateway Protocol (BGP) routing.

BGP routing literally makes the Internet work! It is important because it offers network stability so that if one of our two Internet connections are disrupted, e.g. goes down, BGP makes routing decisions based on paths, rules and network policies. Using a routing table as a gateway, it automatically switches traffic around so staff and students will not experience downtime. The technical design is critical to the overall design of our district's technology infrastructure.



### RFP Awards Scheduled for the April 2017 Board Meeting

6.A.6	Bid Name	RFP #	Post BID	BID Opening	Evaluate Bids	Make Recommendation	Board Approval
	Internet Gateway Router Switch	16-12-5049RFP	Friday 12/16/16	Thursday 1/5/2017	Jan 6- Mar 28	20-Mar-17	10-Apr-17

#### Leadership and Vision

Posted by Frankie Jackson, Chief Technology Officer

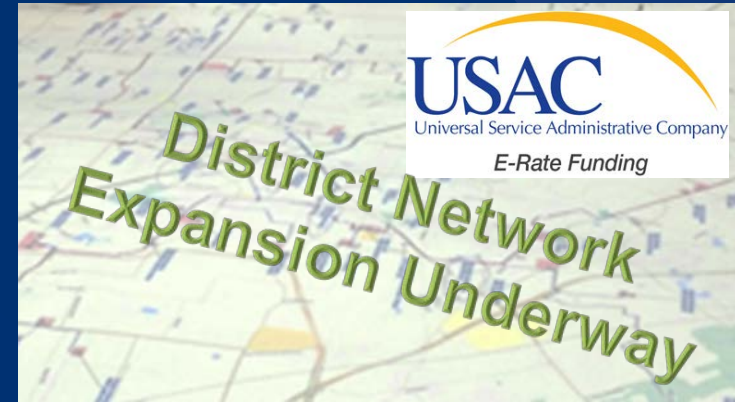
March 29, 2017

# Approval Proposed for the April 2017 Board Meeting RFP 17-01-5079 Technology Construction Renovation Upgrades



Analysis for RFP 16-12-5079 was conducted and completed on **March 22, 2017**. This RFP required extensive detailed analysis due to the number of viable options. Frankie Jackson worked with Ed and Polly Gifford (EPS), Kim Bowlin, Oscar Villar, and Paula Ross to analyze the proposals and to prepare the final recommendation.

The purpose of the Technology Construction Renovation Upgrade RFP is to identify vendor(s) that can assist with technology services and equipment needs during a building's construction renovation.



When buildings undergo renovations, parts of the building may be torn down. Equipment may need to be pulled and reinstalled or equipment may need to be purchased and installed. Data cables may need to be pulled. Pricing was requested for Wireless Access, Network Equipment, Cabling and Professional Services. The recommendation of the bid evaluation committee is to award services by section. The recommendation has been submitted to Purchasing and is proposed for approval at the April 2017 Board of Trustee meeting. The RFP covers these schools (by grade cluster) and (by scheduled completion date).

## RFP Awards Scheduled for the April 2017 Board Meeting

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	Technology Construction Renovation Upgrades	17-01-5079RFP	Wednesday 11/30/16	Thursday 2/9/2017	Feb 10- Feb 16	22-Mar-17	10-Apr-17

### Leadership and Vision

Posted by Frankie Jackson, Chief Technology Officer

March 29, 2017