

2018 Bond Planning Committee

March 19, 2018

- Long-Range Facilities Plan and Priority Codes
- Technology and Safety & Security Needs



Birdville ISD Mission ...

- The mission of BISD is to ensure that all students position themselves to excel with integrity in an ever-changing global society through innovative and responsive learning environments.



Your Birdville ISD Superintendent ...



Dr. Darrell G. Brown



Outcomes for tonight ...

- Aligned work group; cohesive owners of the 2018 Community Bond Planning Committee work
- Superintendent's Remarks
- Long-Range Facilities Plan and Priority Codes Review
- New Construction/ Replacements/Additions
- Additional New Construction Possibilities
- Existing Facilities Needs
- Technology Needs
- Safety & Security Needs
- Overview of subsequent meetings



Housekeeping ...

- All presented materials & information will be distributed to you as handouts and on the Birdville ISD website at birdvilleschools.net/BPC2018 .
- Because of time constraints, no breaks have been scheduled, so please take plumbing or motion breaks as needed. Restrooms are outside the doors to your right.
- Ask any questions. **Unanswered questions or frequently asked questions and answers will be posted on the Birdville ISD website at birdvilleschools.net/BPC2018.**
- A committee roster is under the Committee Members tab in your binder. If your information is incorrect, please write the correct information on the Sign-In sheet at the back of the room. **Your attendance at every meeting** will help yield optimum results for this Committee and this community.
- Those who miss three consecutive meetings will not receive further meeting notifications.
- Catch-up work and gathering information from missed meetings is the responsibility of the Committee member. Because of the amount and complex/sequential nature of the presentations, no Committee time will be allotted to remediating individuals at tables.



BISD Bond Planning Committee

Ground Rules ...

- One conversation at a time; no sidebar talk.
- Honor the time contract
- Stay on topic and on task
- Share ideas freely; no “duck shooting.”
- Listen to understand; respect and honor others’ input.
- Think holistically; sublimate personal agendas; consider the whole District.
- Be kind
- Be honest
- Be relentless in pursuing consensus
- HAVE FUN!
- Silence electronic devices
- Share the conversation—at tables and in large group.



Long-Range Facilities Plan & Priority Codes ... A Review



Irene Nigaglioni
Architect



Long-Range Facilities Master Plan



Long-Range Facilities Master Plan Agenda

1. **Facilities Assessment Results**
 - a. **Facilities Conditions Index**
2. **Review Possible Replacement Schools**
 - a. **Construction Costs vs. Deficiencies**
 - b. **Challenges & Possibilities**
3. **Other Options**
4. **Questions**



Long-Range Facilities Master Plan: The Facilities Assessment

Completed to date



- Analyzed the condition of a facility in terms of age, design, construction methods, code compliance and materials.
 - Identified costs associated with repair or replacement.
 - Prioritized items in order to identify top needs.

Long-Range Facilities Master Plan: Priority Definitions

PRIORITY DEFINITIONS

Priority 1 : Critical replacements of equipment & systems (0–5 years); critical programmatic or campus needs

Priority 2: Replacements of equipment & systems (5–10 years); programmatic or campus needs

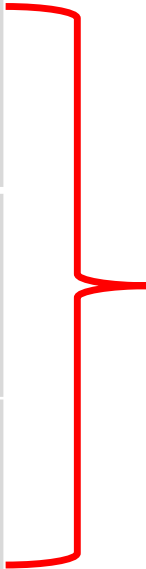
Priority 3: Replacements of equipment & systems (10–15 years); programmatic or campus enhancements

Priority 4: Replacements of equipment & systems (15+ years)

Long-Range Facilities Master Plan: Facility Assessment

UPDATED DISTRICT TOTALS

PRIORITY 1	\$101,743,209.50
PRIORITY 2As	\$41,212,295.22
PRIORITY 2Bs	\$81,782,310.52
PRIORITY 3	\$352,106,882.51
TOTAL	\$576,844,697.75



Considerations for New Construction/ Replacements/Additions

**FACILITIES CONDITION ASSESSMENT REPAIRS VERSUS REPLACEMENTS
FACILITIES CONDITION INDEX**

Long-Range Facilities Master Plan: Facilities Condition

FACILITIES CONDITION INDEX

The **Facility Condition Index (FCI)** is used in to provide a benchmark to compare the relative **condition** of a group of **facilities**.

FCI is an industry-standard measurement of a facility's condition that is the ratio of the cost to correct a facility's deficiencies to the Current Replacement Value (CRV) of the facilities. FCI is typically expressed as a percent.

Long-Range Facilities Master Plan: FCI Number

FACILITIES CONDITION INDEX

Included in FCI number:

- Systems deficiencies, i.e., plumbing issues
- Material replacements, i.e., flooring, roofing
- Code compliance items, i.e., fire alarm replacements
- Repairs to address safety issues

Not included in FCI number:

- Room size modifications to meet Texas Education Standards
- Renovations to upgrade to new district standard designs
 - Collaboration spaces, makerspaces, cafeterias, kitchens, gym spaces, libraries, etc.
- Eliminating portable buildings

New Construction/Replacements/ Additions ...



Dr. Darrell G. Brown
Superintendent of Schools



Irene Nigaglioni
Architect



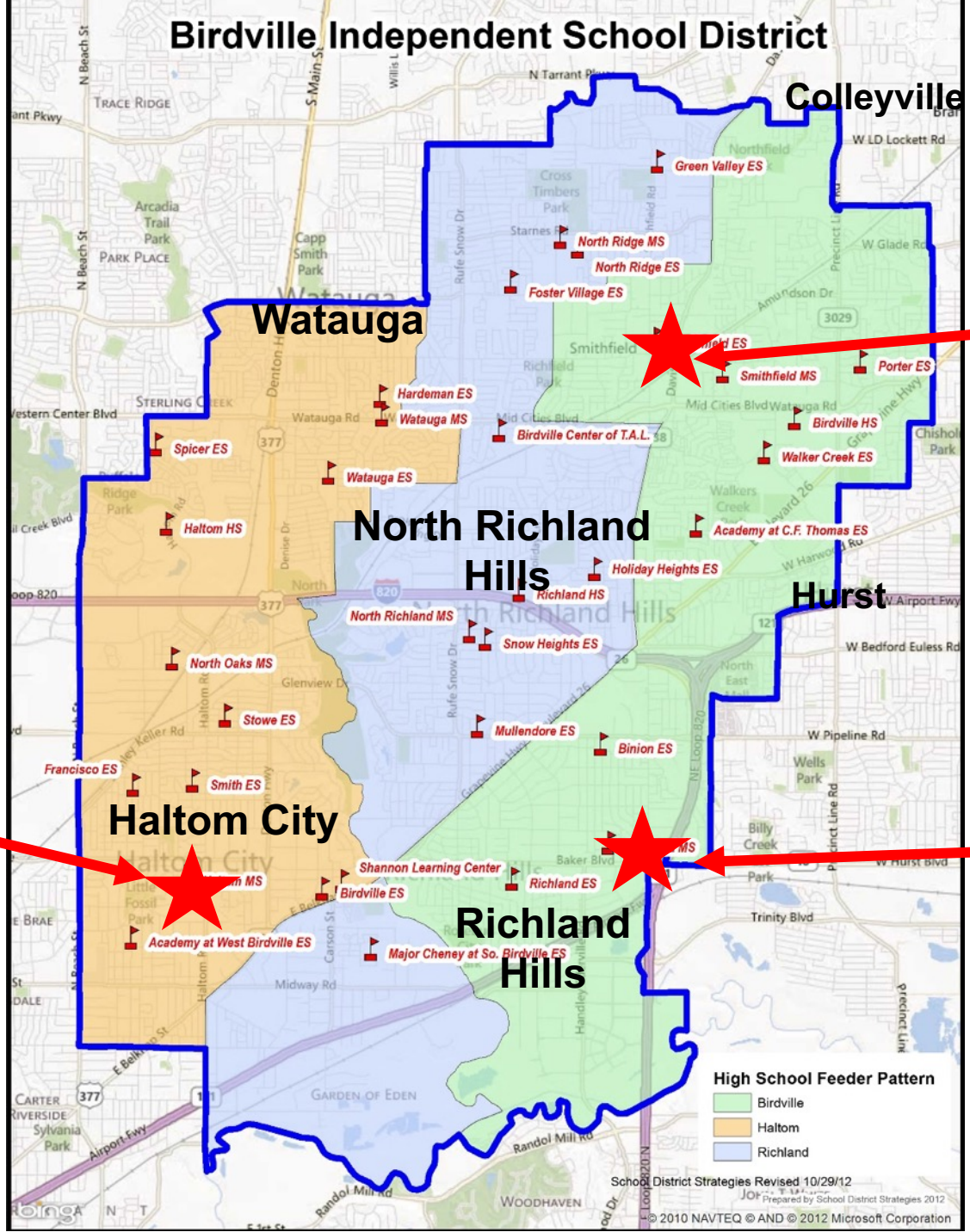
Considerations for New Construction/ Replacements/Additions: Possible Replacements

POSSIBLE SCHOOL REPLACEMENTS

PRIORITY 1 SCHOOLS

School Name	Total P1 & P2	Benchmark FCI	Building Age
Haltom MS	\$32,475,012.78	59.67%	61
Smithfield ES	\$12,865,404.87	50.69%	63
Richland MS	\$20,907,533.59	38.42%	61
Smith ES	\$8,508,306.25	33.52%	63
Cheney ES	\$7,349,808.87	28.96%	64
Francisco ES	\$7,252,608.74	28.58%	58
Richland ES	\$6,594,159.22	25.98%	64


Birdville Independent School District



**SMITHFIELD
ES**



**HALTOM
MS**



**RICHLAND
MS**

Considerations for New Construction/ Replacements/Additions: Priority 1 Schools

PRIORITY 1 SCHOOLS

FEASIBILITY – HALTOM MIDDLE SCHOOL

PROS

- Adequate room on site to build while maintaining existing operations
- New school would have direct access to three roads for enhanced site circulation

CONS

- No field or track during construction
- May need to relocate existing portables
- Topography of site



Considerations for New Construction/ Replacements/Additions: Priority 1 Haltom Middle School

Haltom MS	\$32,475,012.78	59.67%
-----------	-----------------	--------

- + Additions to bring all spaces to TEA School Facility Standards
 - Classroom sizes
 - Science Labs
 - Library
- + Additions to eliminate all Portable Buildings
- + Renovations to bring building up to current codes

Haltom MS	\$52,911,012.70	87.11%
-----------	-----------------	--------

\$60,733,701 Replacement Value

Considerations for New Construction/ Replacements/Additions

PRIORITY 1 SCHOOLS

FEASIBILITY – SMITHFIELD ES

PROS

- Adequate room on site to build while maintaining existing operations

CONS

- Lose play area during construction
- One roadway access (same as currently)



Considerations for New Construction/ Replacements/Additions: Smithfield Elementary

PRIORITY 1 SCHOOLS

Smithfield ES	\$12,865,404.87	50.69%
---------------	-----------------	--------

+ Additions to bring all spaces to TEA School Facility Standards

- Classroom sizes
- Science Labs
- Library

+ Additions to eliminate all Portable Buildings

+ Renovations to bring building up to current codes

Smithfield ES	\$23,365,552.60	82.95%
---------------	-----------------	--------

\$28,165,000 Replacement Value

Considerations for New Construction/ Replacements/Additions: Richland Middle

PRIORITY 1 SCHOOLS

FEASIBILITY – RICHLAND MS

PROS

- Adequate room on site to build while maintaining existing operations
- New school would have direct access to three roads for enhanced site circulation

CONS

- No field or track during construction



Considerations for New Construction/ Replacements/Additions: Richland Middle (2)

PRIORITY 1 SCHOOLS

Richland MS	\$20,907,533.59	38.42%
-------------	-----------------	--------

- + Additions to bring all spaces to TEA School Facility Standards
 - Classroom sizes
 - Science Labs
 - Library
- + Additions to eliminate all Portable Buildings
- + Renovations to bring building up to current codes

Richland MS	\$42,220,237.90	74.88%
-------------	-----------------	--------

\$56,382,979.02 Replacement Value

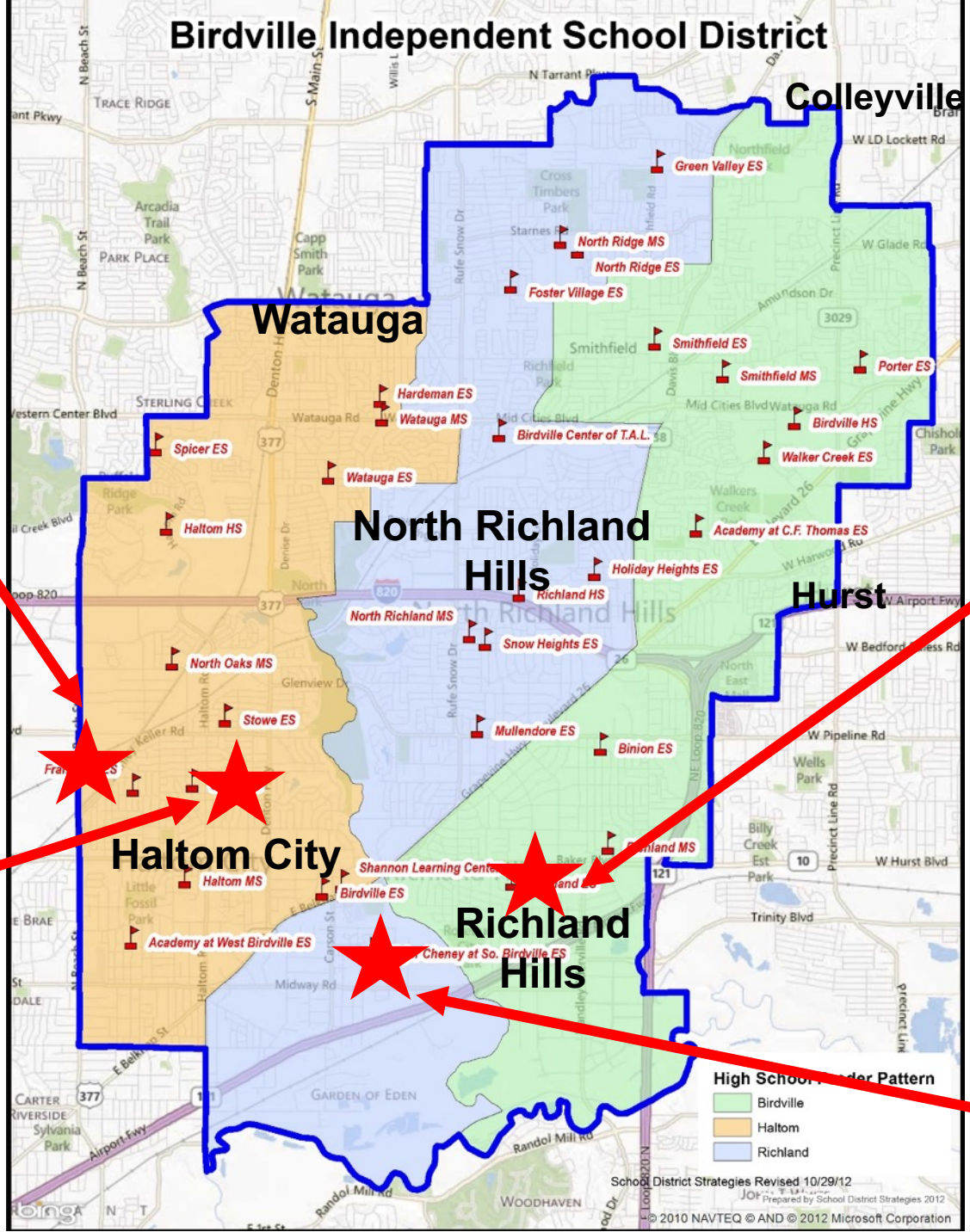
Considerations for New Construction/ Replacements/Additions: Schools

PRIORITY 1A SCHOOLS

PRIORITY 1A SCHOOLS

School Name	Total P1 & P2	Benchmark FCI	Building Age
Haltom MS	\$32,475,012.78	59.67%	61
Smithfield ES	\$12,865,404.87	50.69%	63
Richland MS	\$20,907,533.59	38.42%	61
Smith ES	\$8,508,306.25	33.52%	63
Cheney ES	\$7,349,808.87	28.96%	64
Francisco ES	\$7,252,608.74	28.58%	58
Richland ES	\$6,594,159.22	25.98%	64

Birdville Independent School District



**FRANCISCO
ES**

**RICHLAND
ES**

**SMITH
ES**

**CHENEY
ES**

Considerations for New Construction/ Replacements/Additions: Smith Elementary

PRIORITY 1A SCHOOLS

FEASIBILITY – SMITH ES

PROS

- Adequate room on site to build while maintaining existing operations
- New school would have direct access to two roads for enhanced site circulation

CONS

- Lose play area during construction
- May need to relocate some portables



Considerations for New Construction/ Replacements/Additions: Smith Elementary (2)

PRIORITY 1A SCHOOLS

Smith ES	\$8,508,306.25	33.52%
----------	----------------	--------

+ Additions to bring all spaces to TEA School Facility Standards

- Classroom sizes
- Science Labs
- Library

+ Additions to eliminate all Portable Buildings

+ Renovations to bring building up to current codes

Smith ES	\$23,550,165.10	83.61%*
----------	-----------------	---------

\$31,051,913 Replacement Value**

Considerations for New Construction/ Replacements/Additions: Cheney Elementary

PRIORITY 1A SCHOOLS

FEASIBILITY – CHENEY ES

PROS

- Adequate room on site to build while maintaining existing operations

CONS

- Lose play area during construction
- New school would be very close to industrial area
- Costly on-site detention needed due to drainage issues on-site



Considerations for New Construction/ Replacements/Additions: Cheney Elementary (2)

PRIORITY 1A SCHOOLS

Cheney ES	\$7,349,808.87	28.96%
-----------	----------------	--------

+ Additions to bring all spaces to TEA School Facility Standards

- Classroom sizes
- Science Labs
- Library

+ Additions to eliminate all Portable Buildings

+ Renovations to bring building up to current codes

Cheney ES	\$21,364,372.27	73.96%*
-----------	-----------------	---------

\$31,846,263.75 Replacement Value**

* Based on 2018 dollars

** Includes on site detention to address drainage issues and inflation

Considerations for New Construction/ Replacements/Additions: Francisco Elementary

PRIORITY 1A SCHOOLS

FEASIBILITY – FRANCISCO ES

PROS

- Adequate room on site to build while maintaining existing operations
- New school would maintain access to two roads for enhanced site circulation

CONS

- Lose play area during construction
- May need to relocate portables



Considerations for New Construction/ Replacements/Additions: Francisco Elementary (2)

PRIORITY 1A SCHOOLS

Francisco ES	\$7,252,608.74	25.58%
--------------	----------------	--------

+ Additions to bring all spaces to TEA School Facility Standards

- Classroom sizes
- Science Labs
- Library

+ Additions to eliminate all Portable Buildings

+ Renovations to bring building up to current codes

Francisco ES	\$21,217,300.44	75.33%*
--------------	-----------------	---------

\$31,051,913 Replacement Value**

Considerations for New Construction/ Replacements/Additions: Richland Elementary

PRIORITY 1A SCHOOLS

FEASIBILITY – RICHLAND ES

PROS

- New school would gain access to two roads for enhanced site circulation

CONS

- Would require portables during construction and a costly phased construction process



Considerations for New Construction/ Replacements/Additions: Richland Elementary (2)

PRIORITY 1A SCHOOLS

Richland ES	\$6,594,159.22	25.98%
-------------	----------------	--------

+ Additions to bring all spaces to TEA School Facility Standards

- Classroom sizes
- Science Labs
- Library

+ Additions to eliminate all Portable Buildings

+ Renovations to bring building up to current codes

Richland ES	\$18,388,200.57	58.52%*
-------------	-----------------	---------

\$34,536,065 Replacement Value**

Considerations for New Construction/ Replacements/Additions: Other



OTHER CONSIDERATIONS



Considerations for New Construction/ Replacements/Additions: Other (2)

OTHER CONSIDERATIONS



Cost: \$31,051,913*

* Includes inflation

Considerations for New Construction/ Replacements/Additions: Other (3)

OTHER CONSIDERATIONS



What Are Your Questions or Comments for Dr. Brown or Irene? ...



Long-Range Facilities Master Plan – Existing Facility Needs



Existing Facility Needs: Agenda

AGENDA

1. Facilities Assessment Findings
 - a. Needs by category
 - i. Priority 1 List
 - ii. Priority 2 List
2. Summary
3. Questions



Existing Facility Needs: Categories

Categories

1. Building systems
 - a. Civil
 - b. Building Envelope
 - c. Architecture
 - d. Mechanical
 - e. Electrical
 - f. Plumbing
 - g. Technology
 - h. Low Voltage
 - i. Fire & Life Safety
 - j. Security



Existing Facility Needs: Building Systems 1s

Categories

1. Building systems – **Priority 1s**
 - a. Building Envelope – Roof
 - b. Mechanical
 - c. Security
 - d. Technology



Existing Facility Needs: Building Systems 2s

Categories

1. Building systems – **Priority 2s**
 - a. Civil
 - b. Low Voltage – Fire Alarm/Electrical
 - c. Architectural
 - d. Plumbing



Existing Facility Needs: Mechanical & Roofs

Categories



MECHANICAL & ROOFS

\$95,242,666

Total Priority 1s	\$47,200,447
Total Priority 2As	\$35,528,542
Total Priority 2Bs	\$12,513,677

Existing Facility Needs: Life cycle vs. Condition

Categories

MECHANICAL & ROOFS

\$95,242,666



Life cycle vs. Condition

Based on:

- Run-time hours per day
- Proximity to corrosive contaminants
- How well the equipment has been maintained?
- Have any major repairs or retrofits been made?
- Does it function as intended?

Existing Facility Needs: Committee's Consideration

Categories



MECHANICAL & ROOFS **\$95,242,666**

Total Priority 1s **\$47,200,447**

Total Priority 2As **\$35,528,542**

Total Priority 2Bs **\$12,513,677**

FOR COMMITTEE'S CONSIDERATION

Proposed Priority 1s **\$18,000,000**

Proposed Priority 2As **\$64,728,990**

Proposed Priority 2Bs **\$12,513,677**

Existing Facility Needs: Categories (2)

Categories



ELECTRICAL/FIRE ALARM
ARCHITECTURAL
CIVIL
PLUMBING



\$38,415,291

Existing Facility Needs: Examples

Categories

EXAMPLES

ELECTRICAL/FIRE ALARM



- Replace aging switchgear systems
- Replace parking lot lighting
- Provide additional exterior lighting
- Replace fire alarm systems

ARCHITECTURAL



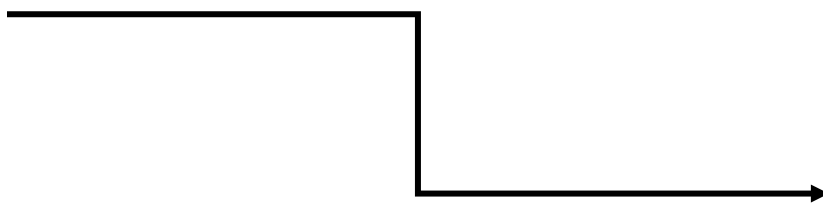
- Replace flooring and base
- Provide acoustical panels in cafeterias

CIVIL



- Asphalt parking lot resurfacing
- Remove and replace broken sidewalks
- Connect downspouts to drainage system

PLUMBING



- Replace toilet fixtures

Existing Facility Needs: Committee's Consideration (2)

Categories



ELECTRICAL/FIRE ALARM
ARCHITECTURAL
CIVIL
PLUMBING
BUILDING ENVELOPE

\$38,415,291

FOR COMMITTEE'S CONSIDERATION

Arc/Civil/Plumbing 2B	\$ 4,483,850
All Arc/Civil/Plumbing 2B	\$24,036,978
Electrical/Fire Alarm 2A	\$ 5,683,753
Electrical/Fire Alarm 2B	\$ 8,694,670

Existing Facility Needs: Programmatic Need/Inequity

Categories

2. Programmatic Need/Inequity
 - a. Athletics/PE
 - b. CTE
 - c. Fine Arts
 - d. Teaching & Learning



Existing Facility Needs: Programmatic Need/Inequity Priority 1s

Categories

2. Programmatic Need/Inequity – **Priority 1s**
 - a. Athletics/PE
 - b. Fine Arts
 - c. Teaching & Learning



Existing Facility Needs: Athletics & PE

Categories



ATHLETICS & PE

\$18,443,957

PRIORITY 1

Construct new Gymnasium & Locker Room at Smithfield MS

\$9,922,500



Existing Facility Needs: Fine Arts

Categories

FINE ARTS

\$2,268,035

PRIORITY 1

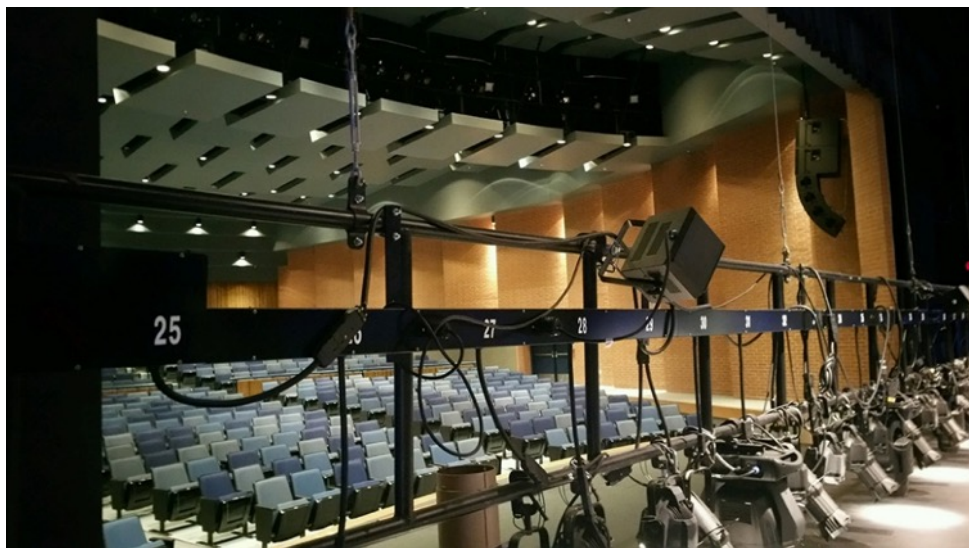
Replace Stage Lighting at high schools with industry-standard LED lighting

Birdville HS \$ 579,319

Haltom HS \$1,109,397*

Richland HS \$ 579,319

*Includes control booth rework, ticket booth renovation and backstage corrections.

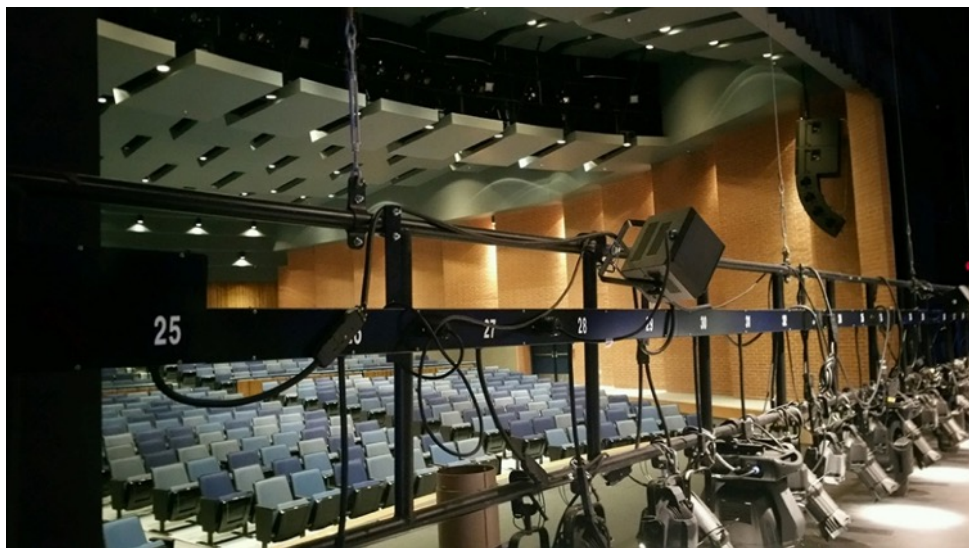


Existing Facility Needs: Fine Arts (2)

Categories

FINE ARTS

\$2,268,035



Why switch to LED Lighting?

- **Systems are at the end of their lifespans**
- **Industry standard**
- **Adds to the functionality of the system**
- **Easier to maintain & longer life**
- **Energy efficient**

Existing Facility Needs: Teaching & Learning

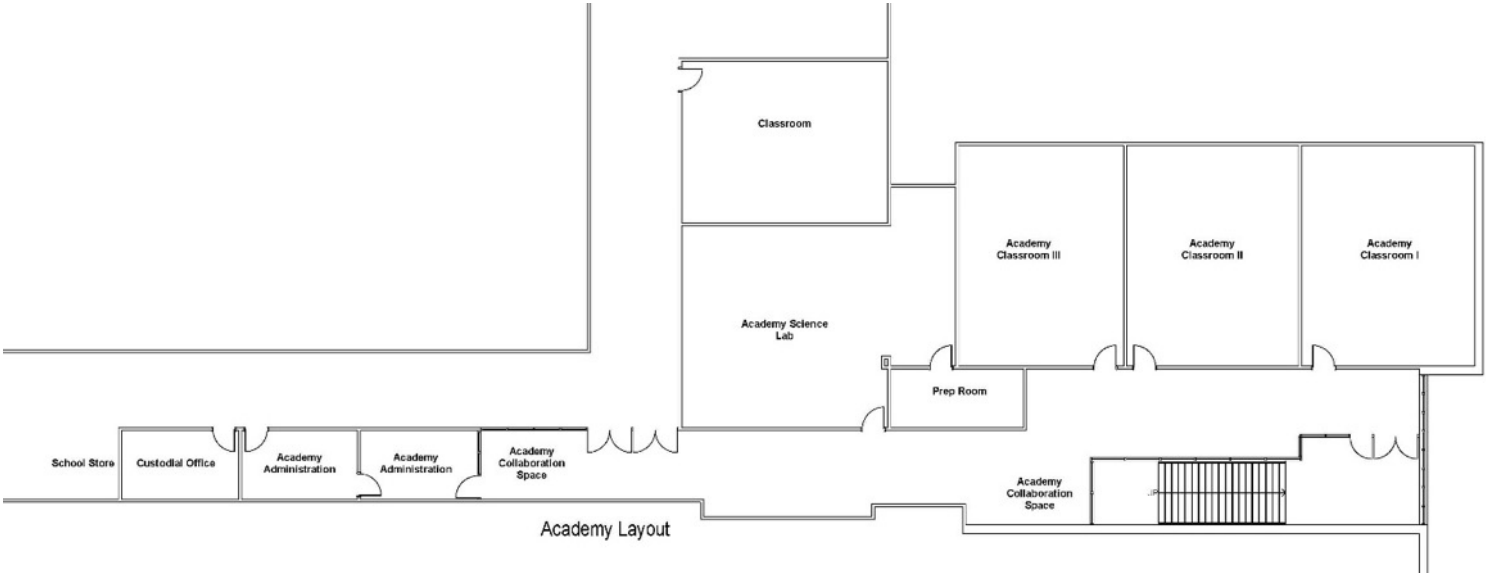
Categories

TEACHING & LEARNING

\$1,000,000

PRIORITY 1

Renovate a portion of Haltom HS's classroom wing for Early College HS



Existing Facility Needs: Summary

SUMMARY

ITEM	PRIORITY 1*	PRIORITY 2A	PRIORITY 2B	TOTALS
HVAC/ROOFS	\$18,000,000	\$64,728,990	\$12,513,677	\$95,242,666
ATHLETICS & PE	\$ 9,922,500			\$ 9,922,500
FINE ARTS	\$ 2,268,035			\$ 2,268,035
TEACHING & LEARNING	\$ 1,000,000			\$ 1,000,000
ARC/CIVIL/PLUMBING TOP ITEMS			\$ 4,483,850	\$ 4,483,850
ARC/CIVIL/PLUMBING			\$24,036,978	\$24,036,978
ELECTRICAL/FIRE ALARM		\$5,683,753	\$ 8,694,670	\$14,378,313
TOTAL	\$31,190,535	\$70,412,743	\$49,729,175	\$151,332,342

*Does not include replacement schools

Existing Facility Needs: Shannon High School

SHANNON HIGH SCHOOL

PRIORITY 1s	\$ 8,455,758.20
PRIORITY 2s	\$ 6,089,190.00
PRIORITY 3s	\$ 1,736,315.88
	\$16,281,264.08
FCI	80.16%*

*Based on P1s & P2s only, and a 45,000 SF replacement building

Committee's Questions, Comments and Feedback ...



How About Technology? Safety & Security? ...



Dave Lambson

**Director of
Technical Services**



Conan Mathson

**Senior Officer – Design
& Construction**



We've come a long way ...



Technology In Our World

7.2 Devices
per Household

(Three or more used on a daily basis)

Adobe Analytics & ADI Device use Survey




Things Your Kids Will Not Understand: Floppy Disk



Things Your Kids Will Not Understand



Electronics > Computers & Accessories > Data Storage > USB Flash Drives



Kingston
Kingston Digital 2TB DataTraveler Ultimate GT USB 3.1/3.0 300MB/s R, 200MB/S Flash Drive (DTUGT/2TB)
★★★★☆ 3 customer reviews
| 3 answered questions

Item is eligible: No interest if paid in full within 12 months with the Amazon.com Store Card.

Note: Signature required upon delivery due to high value of this item. [Details](#)

Note: Available at a lower price from other sellers, potentially without free Prime shipping.

Only 5 left in stock (more on the way).
Want it Saturday, March 10? Order within **22 hrs 53 mins** and choose **Saturday Delivery** at checkout. [Details](#)
Ships from and sold by Amazon.com. Gift-wrap available.

Size: 2TB

Roll over image to zoom in

Equivalent to 1,388,888 floppy disks

Things Your Kids Will Not Understand: VCR Tapes



Things Your Kids Will Not Understand: Camera Film



Things Your Kids Will Not Understand: Passing Notes



Things Your Kids Will Not Understand: Cassette Tapes



Things Your Kids Will Not Understand: CD-ROM Disc



Things Your Kids Will Not Understand: Dial-up Connection



Things Your Kids Will Not Understand: Land Lines



Things Your Kids Will Not Understand: Pay Phone



Things Your Kids Will Not Understand: Hardwire Network Access



Things Your Kids Will Not Understand



Things Your Kids Will Understand: Internet Minute



Created By:
@LoriLewis
@OfficiallyChadd



“Never in human history have we seen so many technologies moving at such a pace ... and everything is being disrupted in the process.”

—Salim Ismail (2014)





disrupt



NETFLIX



Technology In Our World ...



Economics



Entertainment



Communication



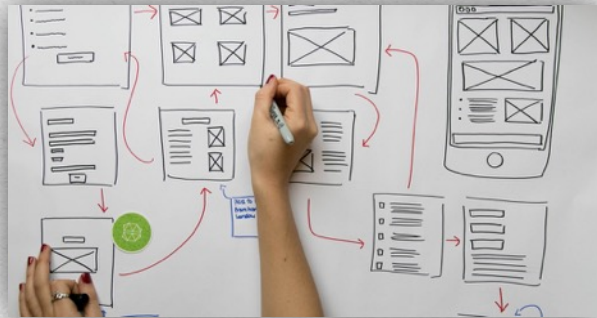
Education



Medicine



Jobs That Did Not Exist 5 to 10 Years Ago





ERIC ADAMS TRANSPORTATION 03.03.18 07:00 AM

DRONES HELP BRING BACK ELECTRICITY IN PUERTO RICO

SHARE

f SHARE 716

🐦 TWEET

💬 COMMENT

✉️ EMAIL



The North Carolina-based company Duke Energy is using five drones to find and restore downed power lines in Puerto Rico. DUKE ENERGY

COMMERCIAL DRONES ARE pretty lazy. Think about it: They spend most of their time taking photos and videos, inspecting equipment and streaming the footage back to

GET WIRED.
3 MONTHS
UNLIMITED
ACCESS ON I

START YOUR TRIAL

MOST POPULAR



BUSINESS
At This Cr
Attendees
ERIN GRIF



SCIENCE
Sea Level
Area Just
Dire
MATT SIM



GEAR
Dyson Cyc
Absolute
Crazy Suc
MICHAEL

MORE STORIES

High Demand, Emerging and Evolving Careers

Aerospace
Engineers

Chemical
Engineers

Civil
Engineers

Electrical
Engineers

Industrial
Engineers

Biomedical
Engineers

Cloud
Architects

Nanosystems
Engineers

Pharmacist

Nurses and
Nurse
Practitioners

Physicians and
Surgeons

Robotics

Coding and
Software
Development

Data Analytics

Marketing

Customer
Service



Attributes Employers Seek

Leadership	80.1%
Ability to work in a team	78.9%
Communication skills (written)	70.2%
Problem-solving skills	70.2%
Communication skills (verbal)	68.9%
Strong work ethic	68.9%
Initiative	65.8%
Analytical/quantitative skills	62.7%
Flexibility/adaptability	60.9%
Technical skills	59.6%
Computer	55.3%

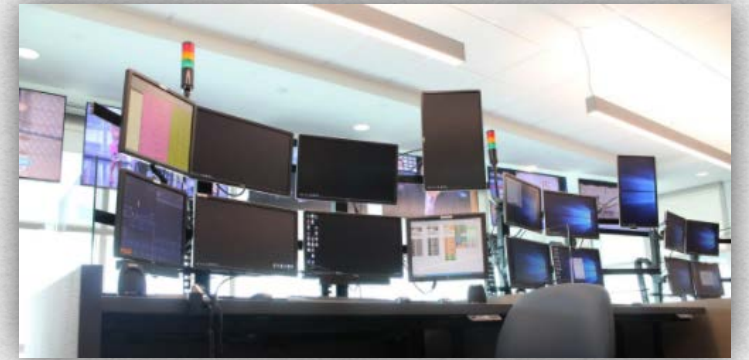
Source: National Association of Colleges and Employers



Technology At Work

More than 50% of today's jobs require some degree of technology skills, and experts say that percentage will increase to 77% in the next decade.

Source: U.S. Bureau of Labor Statistics





How Do We Use Technology in Birdville ISD Video

[> Click to view Video](#)



How Do We Use Technology?

BISD Technology by the numbers:

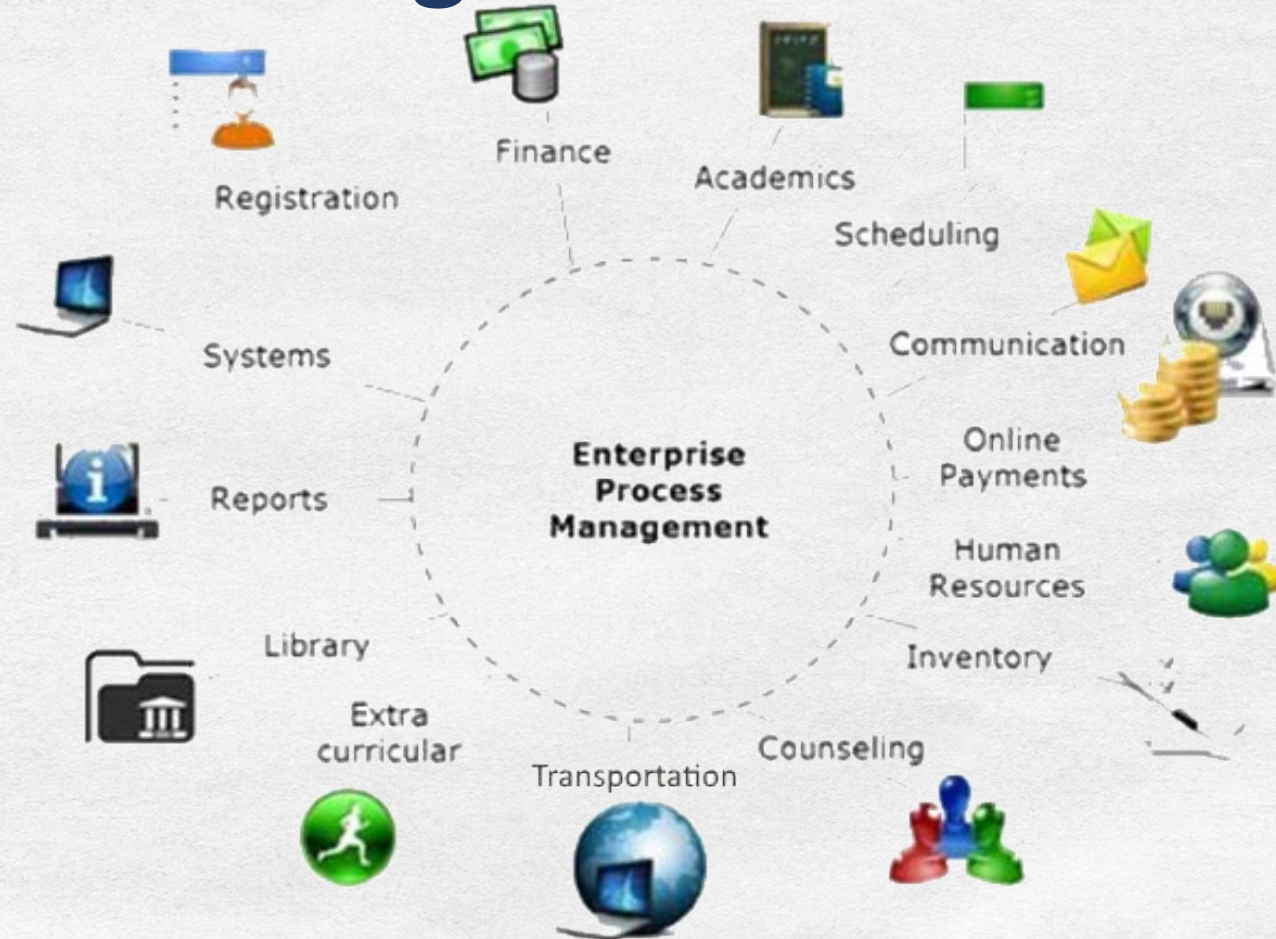
- 14,616 different apps have been downloaded 173,265 times
- 20,426 assignments completed online in Canvas this year alone
- 3,727 Canvas discussions happening now
- 13,103 different parents have accessed Skyward Family Access in the last 60 days



How Do We Use Technology? ... Software



How Do We Use Technology? ... Process Management

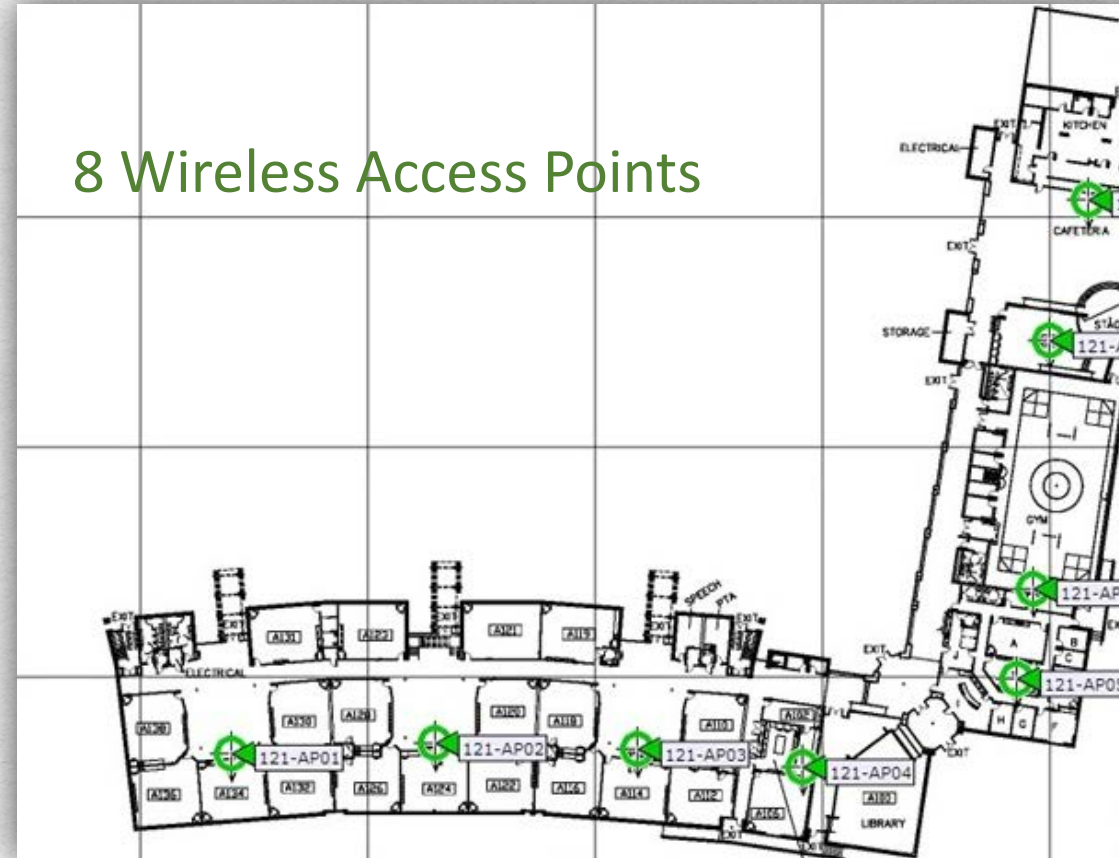


How Do We Use Technology? ... Network Access

- 227 network closets
- 2,281 Wi-Fi access points
- Network supports 11,000 wireless and 14,300 hardwired devices on a daily basis



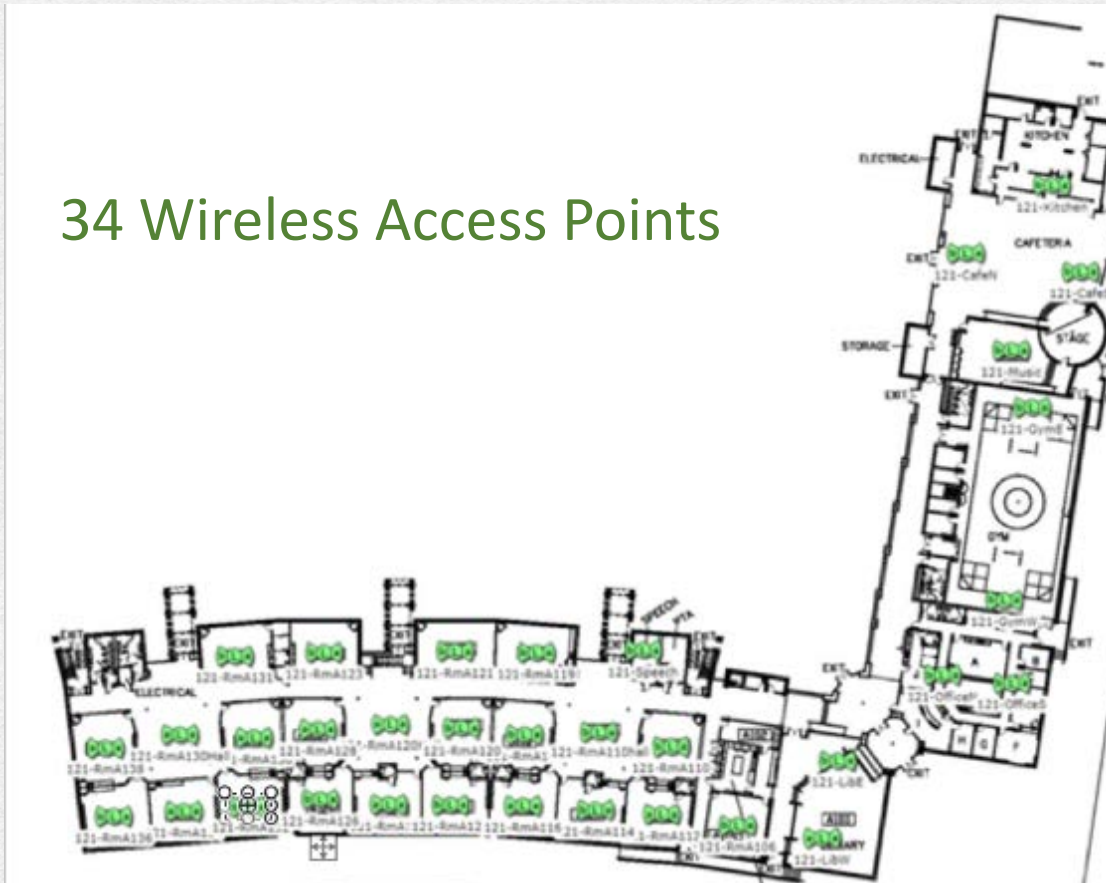
How Do We Use Technology? ... 8 Wireless Access Points



How Do We Use Technology? ... 34 Wireless Access Points



34 Wireless Access Points



How Do We Use Technology? ... Safety & Security

- 1,726 physical security cameras
- 492 doors secured with card readers





Why Do We Need To Refresh Technology?



Why Do We Need To Refresh Technology? ... Heavy Use

- Heavy use by students
- Wear & Tear



Why Do We Need To Refresh Technology? ... Cheaper to Replace

- Cost of repairs exceeds cost of replacement



Why Do We Need To Refresh Technology? ... Technology Changes

- Technology changes fast
- New technology is more effective instructionally
- Exponential growth of students learning digitally





What Are The Technology Needs?



What are the Technology Needs? ...

Safety & Security

- Replace obsolete intercoms
 - Substantially improving functionality and safety.



What are the Technology Needs? ... Gyms



What Are The Technology Needs? ... Security



What Are The Technology Needs? ... Data Center & Disaster Recovery

- 100+ physical servers
- 230+ virtual servers
- Cyber security
- In one month, we block over six million spam emails and stop thousands of malware attacks.
- 2.17 million GB of storage
(2.17 Petabytes)



Deploying Campus Devices

Every campus is on a device refresh cycle



2019
7 Schools



2020
7 Schools



2021
7 Schools



2022
6 Schools



2023
6 Schools



Current Technology Standards:

- Five to six student devices per classroom (class sizes 18 to 36)
- Desktops for teachers
- Checkout carts/labs/library devices
- Projectors/large format displays
- Printers
- Document cameras



Expansion Of Technology Standards Called For By Campuses:

- Half-class set of devices per classroom (class sizes 18 to 36)
- Laptops for teachers (Teachers need mobility)
- Campus carts/labs/library devices
- Projectors/large format displays
- Printers
- Document cameras





Birdville ISD Future Technology Needs Video

[> Click to View Video](#)





We have come a long way ...

We are now accomplishing great things ...

and we need more of the same.



2014 Bond Safety/Security Improvements (Fences)

- Security fences and gates at all elementary schools



2014 Bond Safety/Security Improvements (Gates)

- Access Controlled Gates



2014 Bond Safety/Security Improvements (Vestibules)

- Secured Entry Vestibules
 - Birdville High School, Watauga Elementary, New Schools



2018 Bond Safety/Security Improvements

- Priority 1 Secured Entry Vestibules at the following schools:

- North Oaks Middle
- North Ridge Middle
- Smithfield Middle
- Watauga Middle
- Haltom Middle **(PR)**
- Richland Middle **(PR)**
- Academy at C.F. Thomas
- Foster Village Elementary
- Green Valley Elementary
- Hardeman Elementary
- Holiday Heights Elementary
- Snow Heights Elementary
- Mullendore Elementary
- North Ridge Elementary
- Porter Elementary
- Spicer Elementary
- Smith Elementary **(PR)**
- Francisco Elementary **(PR)**
- Smithfield Elementary **(PR)**

(PR) denotes potential replacement schools



And Your Questions or Comments About Technology and Safety & Security ...



Process Check: Likes & Wishes

LIKES:

WISHES:



Next Meeting ...

Monday, April 2:

- Additional Facilities/Upgrades
- Contingency Fund Strategy
- Financial Capacity and Tax Impact Scenarios
- Direction from Board of Trustees
- Demographic Report
- Individual Bond Construction Instructions

