



RANDOLPH PUBLIC SCHOOLS CAPITAL PLAN

FY2024



VISION, PLANNING, GOALS

The Facility Departments immediate goal is to improve our current operational platforms, while expanding future capabilities; allowing the flexibility to continuously self audit, adapt and provide the best operational conditions for district students and remain financially prudent.

DISTRICT PRIORITY LIST

SUMMARY OF WORK BY BUILDING

PROJECT	JFK	YOUNG	DONOVAN	RCMS	RHS	TOWER HILL	TOTAL
ROOF & DOWNSPOUT REPAIR	-	\$92,100	\$88,600	\$196,600	\$134,200	\$162,200	\$673,700
HVAC UPGRADES	\$56,900	\$52,900	\$52,500	\$52,100	\$25,000	-	\$239,400
BUILDING SECURITY	\$50,900	\$31,100	\$30,100	\$36,100	\$9,200		\$157,400
PLAYGROUNDS /GROUNDS	\$16,600	\$22,700	\$20,600	\$1,000	\$17,600	-	\$78,500
FIRE SAFETY	\$6,900	\$6,100	\$11,000	\$12,700	\$9,200	-	\$45,900
FLOOR REPLACEMENT	\$65,000	-	-	-	-	-	\$65,000
OTHER PROJECTS	-	-	-	-	-	\$250,000*	-
TOTAL	\$196,300	\$204,900	\$202,800	\$298,500	\$195,200	\$162,200*	\$1,259,900

*Total for Tower Hill does not included in Totals



ROOF AND WATER MANAGEMENT

RANDOLPH HIGH SCHOOL



Water management



Clogged downspouts



**Several damaged
downspouts**

RANDOLPH COMMUNITY MIDDLE SCHOOL



Several damaged areas

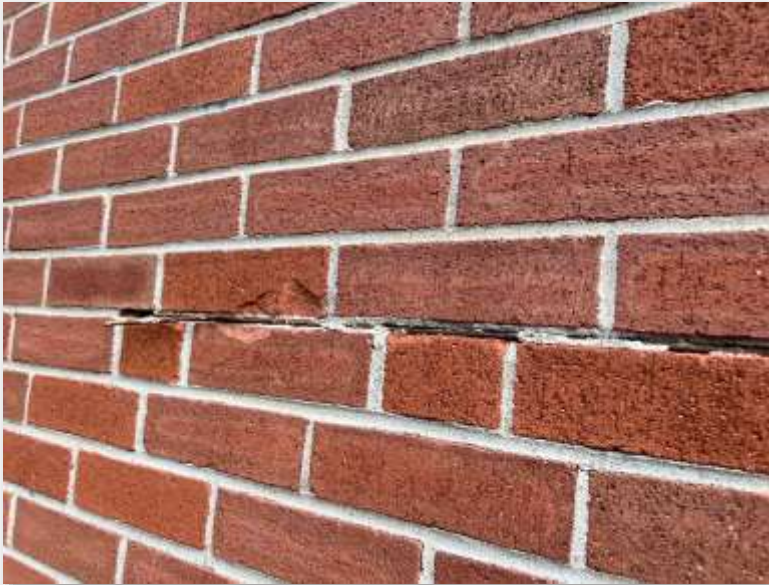


Membrane peeling

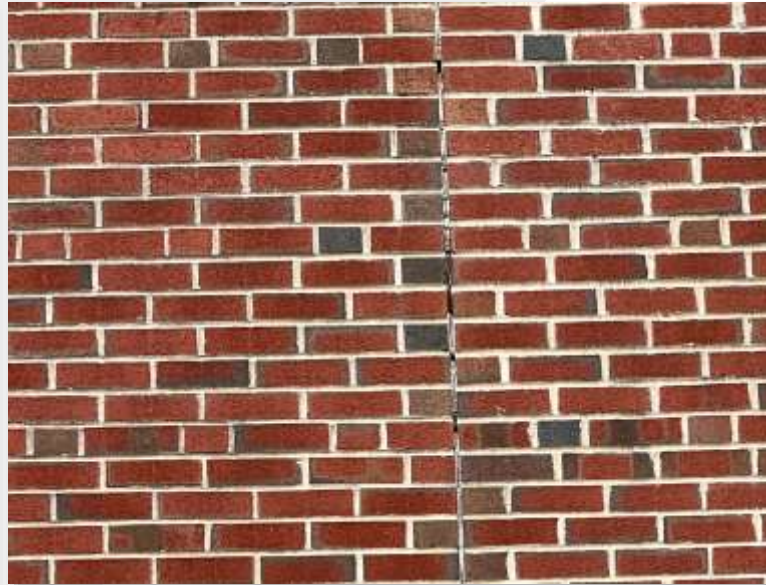


Water infiltrating skylights

DONOVAN SCHOOL



Wall damage



Vertical wall cracks



Rubber roofing failure

YOUNG SCHOOL



Failing coping



Failing flashing



Old repairs failing



ROOF AND DOWNSPOUT REPAIR

Capital FY 2024: \$673,700

Buildings district wide are at a critical stage for roofs. The following roof repairs are needed to address the following issues: Downspouts, gutters, roof leaks, water management and infiltration.

- RHS: \$134,200 repairs only (roof over \$291,500)
- RCMS: \$196,600
- Tower hill: \$162,200
- Young: \$92,100
- Donovan: \$88,600

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APPENDI X

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HVAC UPGRADES



HVAC UPGRADES

Capital FY 2024: \$239,400

Upgrade BAS systems to Johnson Controls (JCI) controls.

Throughout the entire district upgrades and replacement of old, outdated HVAC. Equipment upgrades: air handlers, VCM, software, glycol tanks, uninvent and compressors.

This will demonstrate a savings in both labor and materials while extending the usable life of our equipment.

METASYS SYSTEM

- Young School: \$52,900
- Middle School: \$52,100
- Donovan School: \$52,500
- Kennedy School: \$56,900
- Boiler controls: \$25,000 METASYS SYSTEM

➤ MHEC Pricing = \$239,400

➤ **Savings of 238,800**

HVAC UPGRADES

• **JFK Elementary School HW Boilers:** • Disconnect and remove existing boiler DDC controller. • Provide new Metasys DDC Controller. • Provide new Metasys network controller. • Reconnect existing control points to new Metasys controller • Interface with (4) existing HW pumps w/ VFDs. • Program hot water • Map hot water system points to new head end if applicable.

• **Lyons Elementary School HW Boilers:** • Disconnect and remove existing boiler DDC controller. • Provide new Metasys DDC Controller. • Provide new Metasys network controller. • Reconnect existing control points to new Metasys controller • Interface with (2) existing HW pumps w/ VFDs. • Program hot water system sequence. Existing sequence provided by owner or JCI will program a similar sequence. • Test hot water sequence. • Map hot water system points to new head end if applicable.

• **Donovan Elementary School HW Boilers:** • Disconnect and remove existing boiler DDC controller. • Provide new Metasys DDC Controller. • Provide new Metasys network controller. • Reconnect existing control points to new Metasys controller • Interface with (2) existing HW pumps w/ VFDs. • Program hot water system sequence. Existing sequence provided by owner or JCI will program a similar sequence. • Test hot water sequence. • Map hot water system points to new head end if applicable.

• **Young Elementary School HW Boilers:** • Disconnect and remove existing boiler DDC controller. • Provide new Metasys DDC Controller. • Provide new Metasys network controller. • Reconnect existing control points to new Metasys controller Page 2 of 5 Created on: 09/06/2022 • Interface with (4) existing HW pumps w/ VFDs. • Program hot water system sequence. Existing sequence provided by owner or JCI will program a similar sequence. • Test hot water sequence. • Map hot water system points to new head end if applicable.

• **Community Middle School:** • Disconnect and remove existing boiler DDC controller. • Provide Metasys DDC Controller.

• **Metasys network controller.** • Reconnect existing control points to new Metasys controller • Interface with (3) existing HW pumps w/ VFDs. • Program hot water system sequence. Existing sequence provided by owner or JCI will program a similar sequence. • Test hot water sequence. • Map hot water system points to new head end if applicable. Metasys Hosted Server • Provide a (3) year hosted Metasys server subscription. o Hosted server will always remain at latest Metasys revisions. o Includes trending, historical data storage, alarm email alerts, and other features. o Access Metasys at any time from any location. o Includes full color graphics. o Includes airwall capabilities. No Microsoft SQL server software required. o No software subscription required. o Hosted server subscription has a (3) year minimum. A renewal subscription is required after (3) years. • Electrical installation of BAC Net communication trunk and DDC points. Wiring is based on soft plenum rated cable and EMC conduit in exposed spaces. • Programming and commissioning of DDC devices above. • BAS Graphics are included for each DDC system above if applicable. • Owner to provide network drops where necessary. • This proposal includes a (12) month warranty. • This Proposal includes (4) hours of customer training per school.

BUILDING SECURITY



BUILDING SECURITY

Capital FY 2024: \$157,400

Re-keying of all door locks with physical keys.

Key reader swipe cards where applicable or Key-pad

Key-cutting machine to allow in district key making, as well as keys, blanks, cores and cylinders

“KEYTEL” software to track and generate reports on all district keys

Eliminating old keys and potential threats to enter facilities.

- Young School: \$31,100
- John F. Kennedy School: \$50,900
- Middle School: \$36,100
- Donovan School: \$30,100
- High School: \$9,200



PLAYGROUNDS





PLAYGROUNDS & GROUNDS

\$78,500 Capital FY 2024

The following Schools require playground upgrades. This will include new equipment (slides, hanging bars, obstacle course ETC).

- JFK: \$15,600
- Young: \$21,700
- Donovan: \$19,600
- RHS: \$17,600 long jump pit
- Mulch and landscaping \$4000

FIRE SAFETY



FIRE SAFETY

Capital FY 2024: \$45,900

Equipment replacement and upgrades to existing systems district wide

Upgrade to include both hardware and software.

State of the art technology and solid-state upgrades throughout the district.

Upgrade to all hailers, pumps, alarms and fire suppression.

- Young School: \$6,100
- John F. Kennedy School: \$6,900
- Middle School: \$12,700
- Donovan School: \$11,000
- High School: \$9,200

FLOOR REPLACEMENT

FLOOR REPLACEMENT

\$65,000 Capital FY 2024

Full replacement of lower-level floor caused by boiler failure in 2023:

- JFK: This was already sent and has an approved bid for this project.

