



# **CAPITAL PROJECTS AND FACILITIES UPGRADES**

**2019-2024**





# GORDON-BARBOUR ELEMENTARY SCHOOL



**2022-2023**

**12,000 sq. ft. Addition K & 1st Grade:**

- 6-full classrooms
- 2 small work rooms
- 1-office
- Restroom in each classroom (VDOE requirement for early grades)
- Central gathering space

A **security vestibule & ADA ramp** were also added.



**2024**

**Replaced 2-Pipe HVAC system in main building with VRF system.**

- 2/3 of cost was covered by guaranteed energy savings.



**2024**

**Renovations:**

- **to the 6,500 sq. ft. annex** originally built in 1977. Grades 4 & 5 moved to main building, and annex now houses Connect programs which include:
  - a larger Music classroom w/sound insulated walls
  - an Art classroom that incorporates cabinets with 2 sinks using existing plumbing
  - classrooms for Reading, Technology, Speech and Gifted/Talented.
  - HVAC was replaced in Sept. 2023
- **to the 4,900 sq. ft. annex** built in 1973. Kindergarten moved to new addition, and annex now houses the GBES Head Start Program.



**2024**

**Playground Improvements:**

- removal of broken/obsolete equipment
- relocation of wire rope climber from LGMS to GBES
- replaced deteriorated wood borders with black vinyl borders
- added mulch to proper depth to meet safety standards.



**2023-2024**

**Energy Saving Performance Contract:**

- Replacement of all non-LED lighting with new LED lamps/fixtures
- Replacement of older plumbing fixtures w/water saving fixtures.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



**2024**

**Replace EPDM rubber roof on main building** with 90 mil EDPM covered by 25 year warranty, matching a potential solar contract





# GBES ADDITION & RENOVATIONS







# LOCUST GROVE PRIMARY SCHOOL



2022

**Constructed security vestibule** at main entrance to allow for screening of visitors.

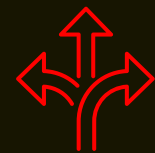
80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2023

**Moved fuel tank** to back of new bus area.

**Removed all concrete window sills** & replaced with brick sills.



2023

**Removed islands, repaved, and moved bus pickup and drop off** from far side of LGES & LGPS to between the two buildings.

**Moved student drop off and pickup** to the far sides of each building.



2023-2024

**Energy Saving Performance Contract:**

- Replacement of all non-LED lighting with new LED lamps/fixtures
- Replacement of older transformers with more efficient equipment.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Playground Improvements:**

- enlarged playground to accommodate additional equipment
- replaced deteriorated wood borders with black vinyl borders
- added mulch to proper depth to meet safety standards.





# LGPS IMPROVEMENTS & UPDATES







# LOCUST GROVE ELEMENTARY SCHOOL



2021

**Hydro fracked well** that serves LGES & LGPS.  
Replaced pump, motor, and check valve.



2022

**EIFS repair and recoating** on front of building.



2023

**Added several new sidewalks and replaced others** as part of the project to move the bus pickup & drop off from far sides of LGES & LGPS to the area between the buildings.

**Replaced both chillers** (original to the school) with new Trane chillers funded 100% by ESSER III federal grant.



2023-2024

**Energy Saving Performance Contract:**

- Replacement of all non-LED lighting with new LED lamps/fixtures
- Replacement of older transformers with more efficient equipment.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Constructed security vestibule** at main entrance to allow for the screening of visitors.

Replaced walk-in refrigerator and freezer in kitchen.







# LGES IMPROVEMENTS & UPDATES







# UNIONVILLE ELEMENTARY SCHOOL



2020

**Refreshed library** with new paint, furniture, carpet.



2022-2023

**Removed old radiators & asbestos** paper from main building

**Patched & painted** walls.



2021

**Constructed security vestibule** at main entrance to allow for the screening of visitors.

**Installed security film** on glass at entrances.

**Added security cameras & switching.**

These projects were 80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2023

**Replaced EPDM rubber roof** on all classrooms from main building with 90 mil EPDM covered by 25 year warranty.

**Built enclosed and conditioned walkway** connecting the main building and the kindergarten annex.



2023-2024

**Energy Saving Performance Contract:**

- Replacement of all non-LED lighting with new LED lamps/fixtures
- Replacement of older transformers with more efficient equipment.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.







# UES IMPROVEMENTS & UPDATES







# LIGHTFOOT ELEMENTARY SCHOOL

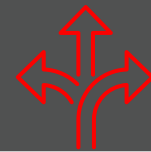


2021

**Constructed security vestibule** at main entrance to allow for the screening of visitors.

**Installed security film** on glass at entrances.

These projects were 80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2023

**Widened gravel base** at parent pickup/dropoff loop on side of building.

**Milled** existing asphalt.

**Repaved & striped** the whole area.



2023

**Built enclosed & conditioned walkway** connecting the main building with the 5th grade annex.



2023-2024

**Energy Saving Performance Contract:**

- Replacement of all non-LED lighting with new LED lamps/fixtures
- Replacement of older transformers with more efficient equipment.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.





# LES RENOVATIONS & UPDATES







# ORANGE ELEMENTARY SCHOOL



2020

**Applied 50 mil silicone coating** to existing roofing on the main building.

**Installed solar panels** on coated roofs & on newer roof of kindergarten annex. Billing to be based on power production from system, w/initial cost below Dominion rates and 1% annual escalation which is well below Dominion average increase.



2020

**Constructed walkway enclosure** connecting the main building & the kindergarten annex & eliminating stairs at the lower level of main building enabling full ADA access between that floor, the exterior & annex.



2021

**Constructed security vestibule** at main entrance to allow for the screening of visitors.

**Installed security film** on glass at entrances.

**Installed security cameras & switching.**

These projects were 80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2022

**Playground Improvements:**

- **removed** old, leaning board fence & chain link fence around lower playground
- **installed** segmental block retaining wall to correct height
- **installed** new black coated chain link fencing
- **leveled** playground & installed mulch to proper depth to meet safety standards



2023

**Replaced 2-Pipe HVAC system** in main building with water source heat pumps:

- **enabling** year round on-demand heating, cooling & dehumidification in each space
- **eliminating** need to change over to A/C or heat.

**This project:**

- **utilized** boilers that were replaced in 2014 & existing piping
- **eliminated** the chillers which were older & had reoccurring issues
- **was 100% grant funded:**
  - 50% Federal HVAC grant requiring 50% match
  - Federal ESSER grant covered the 50% required match



2023-2024

**Energy Saving Performance Contract:**

- **Replacement** of all non-LED lighting with new LED lamps/fixtures
- **Replacement** of older transformers with more efficient equipment
- **Replacement** of older plumbing fixtures w/water saving fixtures.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Replaced all 4 HVAC units** on roof of kindergarten annex after one unit failed. 100% funded by ESSER III Federal Grant.





# OES RENOVATIONS & UPDATES







# LOCUST GROVE MIDDLE SCHOOL



2020

**R'newal** (comprehensive HVAC equipment overhaul offered by Trane) performed on frequency drive chiller #2 due to failure of drive.



2021

**Installed** security film on glass at entrances to the school.

80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2020

**Installed** new security camera & DVR system.

80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2022

**Replaced** problematic light switches & controls in all classrooms.

**Replaced** all fluorescent & incandescent lamps with LED.



2024

**R'newals** on the compressor & drive of chiller #1, and the compressor of chiller #2 were completed by Trane.

These projects were 100% funded by ESSER III Federal Grant.



2024

**Installed a new 10'x16' Greenhouse** funded by the Orange County Education Foundation.







# LGMS IMPROVEMENTS & UPDATES







# PROSPECT HEIGHTS MIDDLE SCHOOL



2020

**EIFS repair & re-coating** on front of building and back wall classrooms.



2022

**Painted** all classrooms on 1st floor & other rooms including art room.

**Replaced** windows in cafeteria (leaking & hard to open/close)

**Constructed** security vestibule at main entrance to allow for the screening of visitors.

These projects were 80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2021

**EIFS repair & re-coating** on cafeteria walls.

**Replaced** drywall soffit w/beaded vinyl material.

**Installed** security film on glass at entrances to the school. 80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.

**Painted:**

- exterior doors
- all classrooms on 2nd floor
- all restrooms

**Replaced** walk-in refrigerator & freezer.



2023

**Replaced both chillers** (original to school) with new Trane chillers.

100% funded by ESSER III Federal Grant.



2023

**Purchased, refurbished, & installed** scoreboard at PHMS football field.



2023-2024

**Energy Saving Performance Contract:**

- **Replacement** of all non-LED lighting with new LED lamps/fixtures
- **Replacement** of older transformers with more efficient equipment
- **Replacement** of older plumbing fixtures w/water saving fixtures.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Purchased & installed** an outdoor classroom pavilion and a modular restroom facility behind school utilizing federal grant funding.



2024

**Installed a new 10'x16' greenhouse** funded by the Orange County Education Foundation.





# PHMS IMPROVEMENTS & UPDATES







# ORANGE COUNTY HIGH SCHOOL



2019

**Installed** new security camera & DVR system.

80% funded by VDOE School Security Equipment Grant plus 20% match from OCPS.



2022

**Installed new greenhouse** after existing greenhouse was damaged in a storm. Added water, electric & propane.



2020

**Purchased & installed** bottle fillers to replace conventional drinking fountains.

**Installed new aluminum ramp system & replaced sidewalks** in front of the Hornet Sports Center.

**Applied** 50 mil silicone coating to most of the existing roofing on main building.

**Installed** solar panels.



2023

**Installed segmental block retaining wall** beside stairs outside Hornet Sports Center to eliminate erosion problems & improve curb appeal.

Repaired & re-coated EIFS on exterior of building including all front elevations, plus sides & rear accessible from ground level.

Renovated and altered administrative & guidance office suites and some classrooms including Special Education.

Painted main hallway & several stairways.



2021

**Installed new railings** on bleachers at the Hornet Sports Center to meet ADA requirements.



2023-2024

#### Energy Saving Performance Contract:

- **Replacement** of all non-LED lighting with new LED lamps/fixtures
- **Replacement** of older transformers with more efficient equipment
- **Replacement** of older plumbing fixtures w/water saving fixtures.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Constructed security vestibule** at main entrance to allow for the screening of visitors.

**Removed & replaced** paving, surfacing, fencing & nets for all 6 tennis courts (4 were unplayable).





# OCHS IMPROVEMENTS & UPDATES







# TAYLOR EDUCATION ADMINISTRATION COMPLEX



2019-2020

**2-Phase renovation of 3 rooms** at rear of TEAC Admin side to accommodate cosmetology classes.



2020

**Replaced** walk-in refrigerator & freezer in kitchen.



2021

**Renovations & alterations** to several offices on Admin side to accommodate additional staff, including carpet replacement.

**Renovated** large room past kitchen to serve as IT workroom.



2022

**Replaced** undersized emergency generator with larger model to be able to operate servers & phones.

**Removed** asbestos floor tiles and renovated room 51 for Alternative Education Classes.



2023-2024

**Energy Saving Performance Contract:**

- **Replacement** of all non-LED lighting with new LED lamps/fixtures
- **Replacement** of older transformers with more efficient equipment
- **Replacement** of older plumbing fixtures w/water saving fixtures.

Entire cost of these upgrades covered by the performance contract's guaranteed energy savings.



2024

**Removed plaster ceiling & asbestos pipe insulation** in Head Start hallway and one classroom.

**Replaced** leaking & corroded sections of HVAC water pipe.

**Installed** new ceiling grid & tile.



2024

**Poured concrete** at the Head Start & Technology Office to level the entrance.



# TEAC UPDATES







# PORTERFIELD PARK



2019

**Replaced lighting** on 3 poles closest to the baseball field with LED fixtures.



2022

**Removed main scoreboard** damaged by falling tree and several large pine trees & stumps. Temporary scoreboard installed.

**Graded area outside fence** to remaining tree line.



2023

**Demolished** old cinder block restrooms, concessions, team room & storage spaces under bleachers.

**Reinforced, removed rust, & painted** all structural steel.

**Rehabilitated** main bleachers & replaced portable bleachers.

**Installed** permanent scoreboard.

**Replaced** large sign on brick wall facing Montevista Avenue.

**Acquired** 0.96 acre of additional land from Town of Orange located outside of the fence behind scoreboard & also including batting cages & basketball court.

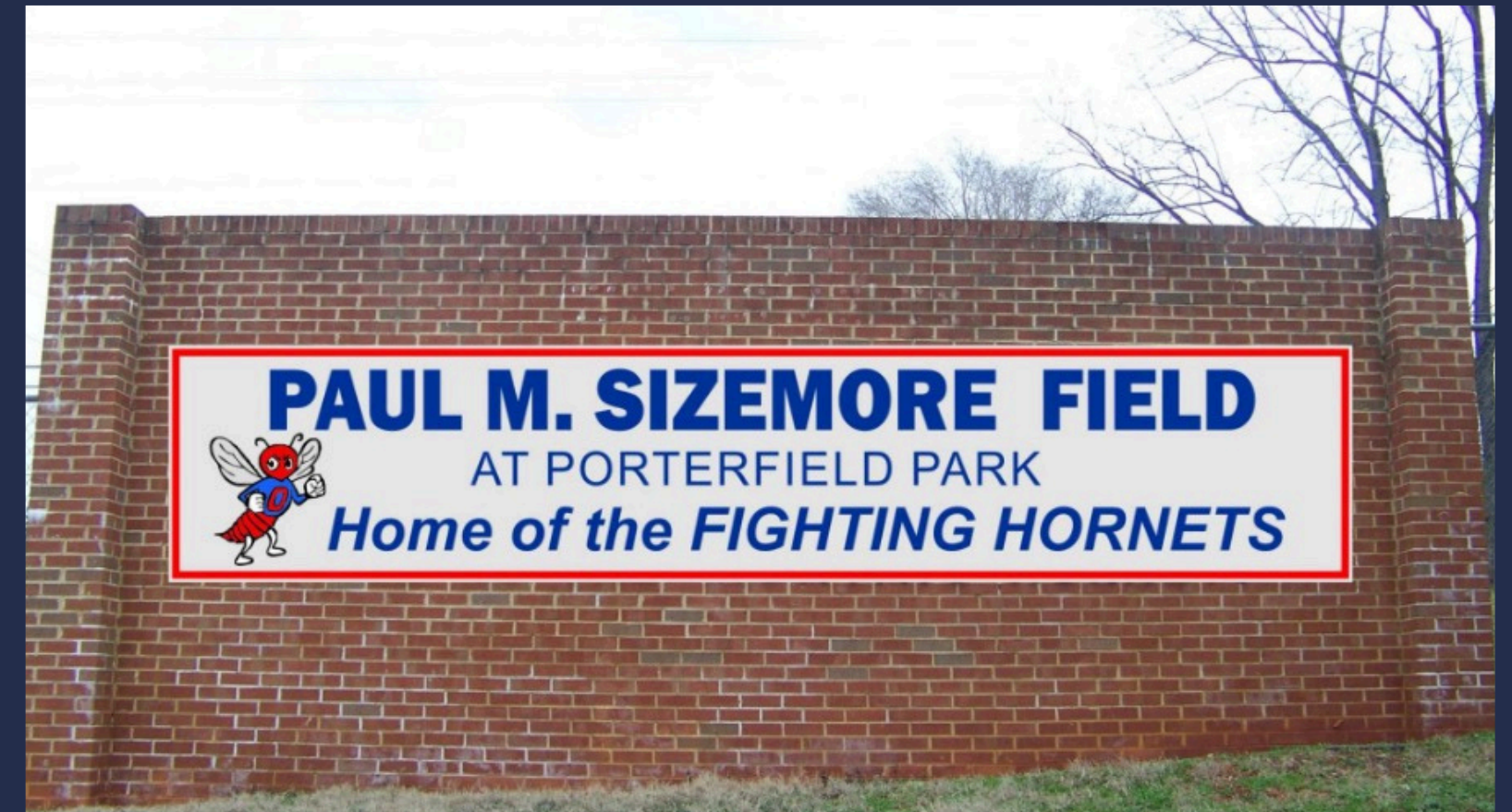


2024

**Removed** concrete ramps on each end of permanent bleachers & apron in front and replaced with all new ramps & apron meeting code.

**Poured** concrete pads for all other bleachers.

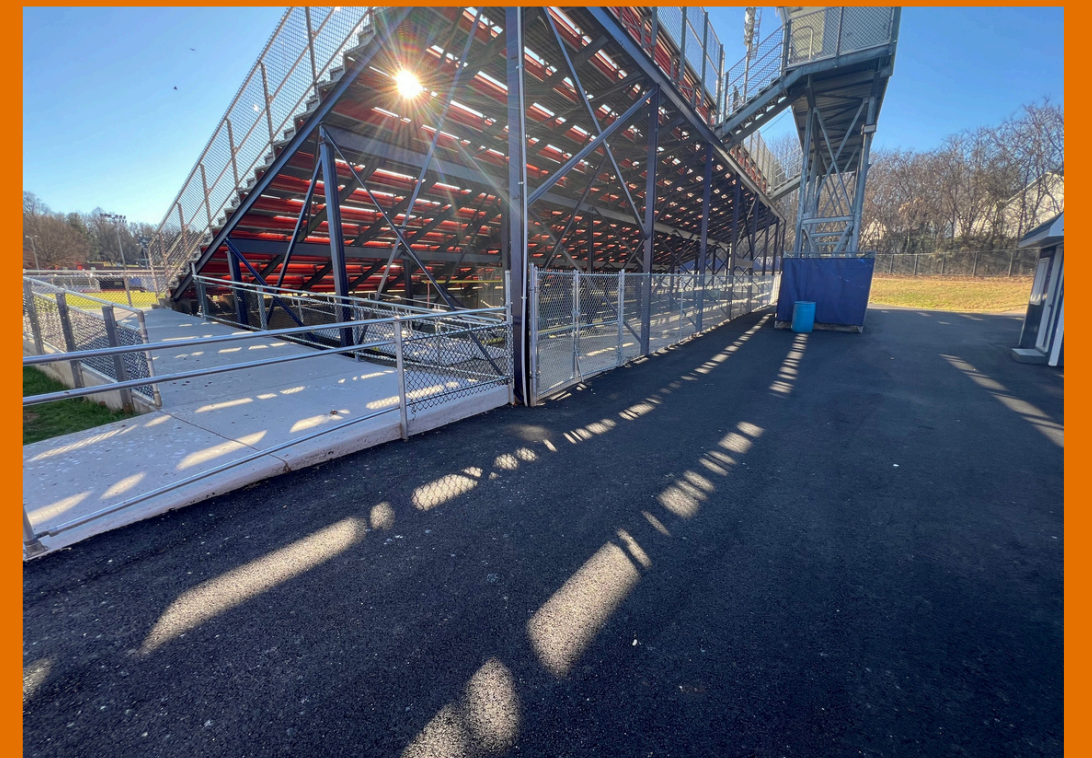
**Paved** the entire gravel area inside & outside the park.







# PORTERFIELD PARK UPDATES







# QUESTIONS?