

## **Background**

The Twin Valley School District has begun the Phase 2 work to continue to address the heating, ventilation, air-conditioning (HVAC), and LED lighting upgrade needs in District buildings. The District has decided to proceed with this work because of the following:

- Existing mechanical systems under consideration for this project are 20-30+ years old and at or beyond their useful life.
- Equipment targeted under this program has been well maintained; however, it is aged to a point where replacement is warranted.
- Buildings are experiencing control and comfort challenges associated with older equipment and controls as well as continued maintenance needs.

The installation of a current generation HVAC system was the next logical step for consideration by the Twin Valley School District. The solutions vary slightly by building. Phase 2 continues the addition or replacement of various existing HVAC systems with Dedicated Outdoor Air System (DOAS) units, Roof Top Air Handling Units (RTU), 4-pipe unit ventilators in the classroom (and similar) areas, and/or upgrades to existing heat pump/energy recovery ventilator systems. The benefits of these upgrades include improved control and comfort, improved humidity control, increased system efficiency, and reduced maintenance issues.

Phase 2 work in 2023 will occur in the Twin Valley High School, the Twin Valley Middle School, the Honey Brook Elementary Center, and the Robeson Elementary Center.

## **April 2023 Progress**

Twin Valley High School – Select work at night/weekends as follows:

- Select removal and replacement of ceiling tile and grid for installation of new above ceiling work.
- Removal of existing/abandoned Phase 1 ductwork.
- Field measured for new HVAC ductwork and piping.
- Received and stored various pieces of new HVAC equipment for future installation.
- Clean up every day.

Twin Valley Middle School – Select work at night/weekends as follows:

- Select removal and replacement of ceiling tile and grid for installation of new above ceiling work.
- Field measured for new HVAC ductwork and piping.
- Continued to install new HVAC piping from the Ground Floor Corridor into the Boiler Room.
- Received and stored various pieces of new HVAC equipment for future installation.
- Clean up every day.

Robeson Elementary Center – Select work at night/weekends as follows:

- Select removal of ceiling tile and grid for installation of new above ceiling work.
- Layout for new HVAC piping and ductwork penetrations.
- Ordered materials to keep up with production and supply chain issues.
- Received and stored various pieces of new HVAC equipment for future installation.
- Clean up every day.

Honey Brook Elementary Center – Select work at night/weekends as follows:

- Select removal of ceiling tile and grid for installation of new above ceiling work.
- Layout for new HVAC piping and ductwork penetrations.
- Ordered materials to keep up with production and supply chain issues.
- Received and stored various pieces of new HVAC equipment for future installation.
- Clean up every day.

## **May 2023 Planned Progress:**

Twin Valley High School – Select work at night/weekends as follows:

- Continue select removal/replacement of ceiling tile/grid for installation of new above ceiling work.
- Continue removal of existing abandoned Phase 1 ductwork.

- Continue field measuring for new ductwork work and piping.
- Continue to receive and store various pieces of new HVAC equipment for future installation.
- Rough in new HVAC piping in the classrooms with fan coil units.
- Installation of new HVAC piping into the Boiler Room.
- Clean up every day.

Twin Valley Middle School – Select work at night/weekends as follows:

- Continue select removal/replacement of ceiling tile/grid for installation of new above ceiling work.
- Continue field measuring for new ductwork work and piping.
- Continue to install new HVAC piping from the Ground Floor Corridor into the Boiler Room.
- Continue to receive and store various pieces of new HVAC equipment for future installation.
- Rough in new HVAC piping in the classrooms with fan coil units.
- Clean up every day.

Robeson Elementary Center – Select work at night/weekends as follows:

- Continue to field measure for new ductwork work and piping.
- Install pipe hangers on the Ground Floor.
- Install new ductwork on the Ground Floor.
- Clean up every day.

Honey Brook Elementary Center – Select work at night/weekends as follows:

- Continue to field measure for new ductwork work.
- Install new ductwork on the 2nd Floor.
- Install pipe hangers on the 1st Floor.
- Clean up every day.